

# Rami Rami K Korhonen

## List of Publications by Year in descending order

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119  
papers

3,131  
citations

186265

28  
h-index

197818

49  
g-index

126  
all docs

126  
docs citations

126  
times ranked

2245  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fibril reinforced poroelastic model predicts specifically mechanical behavior of normal, proteoglycan depleted and collagen degraded articular cartilage. <i>Journal of Biomechanics</i> , 2003, 36, 1373-1379.	2.1	243
2	Characterization of articular cartilage by combining microscopic analysis with a fibril-reinforced finite-element model. <i>Journal of Biomechanics</i> , 2007, 40, 1862-1870.	2.1	150
3	Collagen network primarily controls Poisson's ratio of bovine articular cartilage in compression. <i>Journal of Orthopaedic Research</i> , 2006, 24, 690-699.	2.3	126
4	Structure-Function Relationships in Enzymatically Modified Articular Cartilage. <i>Cells Tissues Organs</i> , 2003, 175, 121-132.	2.3	117
5	Stress-relaxation of human patellar articular cartilage in unconfined compression: Prediction of mechanical response by tissue composition and structure. <i>Journal of Biomechanics</i> , 2008, 41, 1978-1986.	2.1	93
6	Real-time ultrasound analysis of articular cartilage degradation in vitro. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 519-525.	1.5	91
7	Importance of Collagen Orientation and Depth-Dependent Fixed Charge Densities of Cartilage on Mechanical Behavior of Chondrocytes. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 021003.	1.3	84
8	Effects of radial tears and partial meniscectomy of lateral meniscus on the knee joint mechanics during the stance phase of the gait cycle-A 3D finite element study. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1208-1217.	2.3	81
9	A Novel Method to Simulate the Progression of Collagen Degeneration of Cartilage in the Knee: Data from the Osteoarthritis Initiative. <i>Scientific Reports</i> , 2016, 6, 21415.	3.3	78
10	Experimental and computational analysis of soft tissue stiffness in forearm using a manual indentation device. <i>Medical Engineering and Physics</i> , 2011, 33, 1245-1253.	1.7	66
11	Compressive and tensile properties of articular cartilage in axial loading are modulated differently by osmotic environment. <i>Medical Engineering and Physics</i> , 2010, 32, 155-160.	1.7	64
12	Uncertainties in indentation testing of articular cartilage: A fibril-reinforced poroviscoelastic study. <i>Medical Engineering and Physics</i> , 2008, 30, 506-515.	1.7	59
13	Depth-dependent analysis of the role of collagen fibrils, fixed charges and fluid in the pericellular matrix of articular cartilage on chondrocyte mechanics. <i>Journal of Biomechanics</i> , 2008, 41, 480-485.	2.1	59
14	Quantitative Evaluation of the Mechanical Risks Caused by Focal Cartilage Defects in the Knee. <i>Scientific Reports</i> , 2016, 6, 37538.	3.3	59
15	A multi-scale finite element model for investigation of chondrocyte mechanics in normal and medial meniscectomy human knee joint during walking. <i>Journal of Biomechanics</i> , 2015, 48, 1397-1406.	2.1	54
16	Implementation of a gait cycle loading into healthy and meniscectomised knee joint models with fibril-reinforced articular cartilage. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 141-152.	1.6	53
17	A Review of the Combination of Experimental Measurements and Fibril-Reinforced Modeling for Investigation of Articular Cartilage and Chondrocyte Response to Loading. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-23.	1.3	48
18	Ultrasound indentation of bovine knee articular cartilage in situ. <i>Journal of Biomechanics</i> , 2003, 36, 1259-1267.	2.1	47

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19	Comparison of different material models of articular cartilage in 3D computational modeling of the knee: Data from the Osteoarthritis Initiative (OAI). <i>Journal of Biomechanics</i> , 2016, 49, 3891-3900.	2.1	47
20	A novel mechanobiological model can predict how physiologically relevant dynamic loading causes proteoglycan loss in mechanically injured articular cartilage. <i>Scientific Reports</i> , 2018, 8, 15599.	3.3	46
21	The effect of geometry and abduction angle on the stresses in cemented UHMWPE acetabular cups – finite element simulations and experimental tests. <i>BioMedical Engineering OnLine</i> , 2005, 4, 32.	2.7	43
22	Elastic, Viscoelastic and Fibril-Reinforced Poroelastic Material Properties of Healthy and Osteoarthritic Human Tibial Cartilage. <i>Annals of Biomedical Engineering</i> , 2019, 47, 953-966.	2.5	43
23	Structure-function relationships of human meniscus. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 67, 51-60.	3.1	42
24	The effect of constitutive representations and structural constituents of ligaments on knee joint mechanics. <i>Scientific Reports</i> , 2018, 8, 2323.	3.3	41
25	Composition of the pericellular matrix modulates the deformation behaviour of chondrocytes in articular cartilage under static loading. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 1281-90.	2.8	40
26	Implementation of subject-specific collagen architecture of cartilage into a 2D computational model of a knee joint – data from the osteoarthritis initiative (OAI). <i>Journal of Orthopaedic Research</i> , 2013, 31, 10-22.	2.3	38
27	Simulation of Subject-Specific Progression of Knee Osteoarthritis and Comparison to Experimental Follow-up Data: Data from the Osteoarthritis Initiative. <i>Scientific Reports</i> , 2017, 7, 9177.	3.3	37
28	Utilizing Atlas-Based Modeling to Predict Knee Joint Cartilage Degeneration: Data from the Osteoarthritis Initiative. <i>Annals of Biomedical Engineering</i> , 2019, 47, 813-825.	2.5	33
29	Collagen Network of Articular Cartilage Modulates Fluid Flow and Mechanical Stresses in Chondrocyte. <i>Biomechanics and Modeling in Mechanobiology</i> , 2006, 5, 150-159.	2.8	32
30	Raman microspectroscopic analysis of the tissue-specific composition of the human osteochondral junction in osteoarthritis: A pilot study. <i>Acta Biomaterialia</i> , 2020, 106, 145-155.	8.3	31
31	Application of a semi-automatic cartilage segmentation method for biomechanical modeling of the knee joint. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1453-1463.	1.6	30
32	Structure-Function Relationships of Healthy and Osteoarthritic Human Tibial Cartilage: Experimental and Numerical Investigation. <i>Annals of Biomedical Engineering</i> , 2020, 48, 2887-2900.	2.5	30
33	Superficial Collagen Fibril Modulus and Pericellular Fixed Charge Density Modulate Chondrocyte Volumetric Behaviour in Early Osteoarthritis. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-14.	1.3	29
34	Comparison between kinetic and kinetic-kinematic driven knee joint finite element models. <i>Scientific Reports</i> , 2018, 8, 17351.	3.3	29
35	Prediction of local fixed charge density loss in cartilage following ACL injury and reconstruction: A computational proof-of-concept study with MRI follow-up. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1064-1081.	2.3	28
36	New algorithm for simulation of proteoglycan loss and collagen degeneration in the knee joint: Data from the osteoarthritis initiative. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1673-1683.	2.3	27

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37	Maximum shear strain-based algorithm can predict proteoglycan loss in damaged articular cartilage. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 753-778.	2.8	27
38	Experimental and numerical validation for the novel configuration of an arthroscopic indentation instrument. <i>Physics in Medicine and Biology</i> , 2003, 48, 1565-1576.	3.0	25
39	A Finite Element Study of Micropipette Aspiration of Single Cells: Effect of Compressibility. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-9.	1.3	25
40	Merge of motion analysis, multibody dynamics and finite element method for the subject-specific analysis of cartilage loading patterns during gait: differences between rotation and moment-driven models of human knee joint. <i>Multibody System Dynamics</i> , 2016, 37, 271-290.	2.7	25
41	Machine Learning Classification of Articular Cartilage Integrity Using Near Infrared Spectroscopy. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 219-228.	2.1	25
42	Experimental and computational analysis of soft tissue mechanical response under negative pressure in forearm. <i>Skin Research and Technology</i> , 2013, 19, e356-65.	1.6	22
43	Eight-year trajectories of changes in health-related quality of life in knee osteoarthritis: Data from the Osteoarthritis Initiative (OAI). <i>PLoS ONE</i> , 2019, 14, e0219902.	2.5	22
44	Importance of Material Properties and Porosity of Bone on Mechanical Response of Articular Cartilage in Human Knee Joint—A Two-Dimensional Finite Element Study. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 121005.	1.3	21
45	A computational algorithm to simulate disorganization of collagen network in injured articular cartilage. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 689-699.	2.8	21
46	Evaluation of the Effect of Bariatric Surgery-Induced Weight Loss on Knee Gait and Cartilage Degeneration. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	21
47	Health-related quality of life in relation to symptomatic and radiographic definitions of knee osteoarthritis: data from Osteoarthritis Initiative (OAI) 4-year follow-up study. <i>Health and Quality of Life Outcomes</i> , 2018, 16, 154.	2.4	21
48	Osmotic loading of articular cartilage modulates cell deformations along primary collagen fibril directions. <i>Journal of Biomechanics</i> , 2010, 43, 783-787.	2.1	20
49	Spatial variation of fixed charge density in knee joint cartilage from sodium MRI – Implication on knee joint mechanics under static loading. <i>Journal of Biomechanics</i> , 2016, 49, 3387-3396.	2.1	20
50	Mechanobiological model for simulation of injured cartilage degradation via pro-inflammatory cytokines and mechanical stimulus. <i>PLoS Computational Biology</i> , 2020, 16, e1007998.	3.2	20
51	Correlation of Subchondral Bone Density and Structure from Plain Radiographs with Micro Computed Tomography Ex Vivo. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1698-1709.	2.5	19
52	The effect of different preconditioning protocols on repeatability of bovine ACL stress-relaxation response in tension. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 90, 493-501.	3.1	19
53	Site-specific glycosaminoglycan content is better maintained in the pericellular matrix than the extracellular matrix in early post-traumatic osteoarthritis. <i>PLoS ONE</i> , 2018, 13, e0196203.	2.5	18
54	Computational evaluation of altered biomechanics related to articular cartilage lesions observed in vivo. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1042-1051.	2.3	18

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55	Multiparametric MR imaging reveals early cartilage degeneration at 2 and 8 weeks after ACL transection in a rabbit model. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1974-1986.	2.3	18
56	Collagen fibres determine the crack morphology in articular cartilage. <i>Acta Biomaterialia</i> , 2021, 126, 301-314.	8.3	18
57	Early bone growth on the surface of titanium implants in rat femur is enhanced by an amorphous diamond coating. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 82, 499-503.	3.3	17
58	Anterior cruciate ligament transection alters the n-3/n-6 fatty acid balance in the lapine infrapatellar fat pad. <i>Lipids in Health and Disease</i> , 2019, 18, 67.	3.0	17
59	Identification of locations susceptible to osteoarthritis in patients with anterior cruciate ligament reconstruction: Combining knee joint computational modelling with follow-up T1 $\rho$ and T2 imaging. <i>Clinical Biomechanics</i> , 2020, 79, 104844.	1.2	17
60	Anterior cruciate ligament transection of rabbits alters composition, structure and biomechanics of articular cartilage and chondrocyte deformation 2 $\times$ weeks post-surgery in a site-specific manner. <i>Journal of Biomechanics</i> , 2020, 98, 109450.	2.1	17
61	Estimation of the Effect of Body Weight on the Development of Osteoarthritis Based on Cumulative Stresses in Cartilage: Data from the Osteoarthritis Initiative. <i>Annals of Biomedical Engineering</i> , 2018, 46, 334-344.	2.5	16
62	Experimental mechanical strain measurement of tissues. <i>PeerJ</i> , 2019, 7, e6545.	2.0	16
63	Hypotonic challenge modulates cell volumes differently in the superficial zone of intact articular cartilage and cartilage explant. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 665-675.	2.8	15
64	Characterizing human subchondral bone properties using near-infrared (NIR) spectroscopy. <i>Scientific Reports</i> , 2018, 8, 9733.	3.3	15
65	12 Degrees of Freedom Muscle Force Driven Fibril-Reinforced Poroviscoelastic Finite Element Model of the Knee Joint. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 123-133.	4.9	15
66	Structural and Compositional Changes in Peri- and Extracellular Matrix of Osteoarthritic Cartilage Modulate Chondrocyte Morphology. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 484-494.	2.1	14
67	Three dimensional patient-specific collagen architecture modulates cartilage responses in the knee joint during gait. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1225-1240.	1.6	14
68	The effect of fixed charge density and cartilage swelling on mechanics of knee joint cartilage during simulated gait. <i>Journal of Biomechanics</i> , 2017, 61, 34-44.	2.1	14
69	A multiscale framework for evaluating three-dimensional cell mechanics in fibril-reinforced poroelastic tissues with anatomical cell distribution – Analysis of chondrocyte deformation behavior in mechanically loaded articular cartilage. <i>Journal of Biomechanics</i> , 2020, 101, 109648.	2.1	13
70	An EMG-Assisted Muscle-Force Driven Finite Element Analysis Pipeline to Investigate Joint- and Tissue-Level Mechanical Responses in Functional Activities: Towards a Rapid Assessment Toolbox. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2860-2871.	4.2	13
71	A combined experimental atomic force microscopy-based nanoindentation and computational modeling approach to unravel the key contributors to the time-dependent mechanical behavior of single cells. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 297-311.	2.8	11
72	Elastic, Dynamic Viscoelastic and Model-Derived Fibril-Reinforced Poroelastic Mechanical Properties of Normal and Osteoarthritic Human Femoral Condyle Cartilage. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2622-2634.	2.5	11

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73	Rapid CT-based Estimation of Articular Cartilage Biomechanics in the Knee Joint Without Cartilage Segmentation. <i>Annals of Biomedical Engineering</i> , 2020, 48, 2965-2975.	2.5	10
74	Automated analysis of rabbit knee calcified cartilage morphology using micro-computed tomography and deep learning. <i>Journal of Anatomy</i> , 2021, 239, 251-263.	1.5	10
75	Improvement of arthroscopic cartilage stiffness probe using amorphous diamond coating. , 2005, 73B, 15-22.		9
76	Cell-tissue interactions in osteoarthritic human hip joint articular cartilage. <i>Connective Tissue Research</i> , 2014, 55, 282-291.	2.3	9
77	New Concept to Restore Normal Cell Responses in Osteoarthritic Knee Joint Cartilage. <i>Exercise and Sport Sciences Reviews</i> , 2015, 43, 143-152.	3.0	9
78	Topographical investigation of changes in depth-wise proteoglycan distribution in rabbit femoral articular cartilage at 4 weeks after transection of the anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1278-1286.	2.3	9
79	Alterations in structural macromolecules and chondrocyte deformations in lapine retropatellar cartilage 9 weeks after anterior cruciate ligament transection. <i>Journal of Orthopaedic Research</i> , 2018, 36, 342-350.	2.3	9
80	Functional and structural properties of human patellar articular cartilage in osteoarthritis. <i>Journal of Biomechanics</i> , 2021, 126, 110634.	2.1	9
81	Near Infrared Spectroscopic Evaluation of Ligament and Tendon Biomechanical Properties. <i>Annals of Biomedical Engineering</i> , 2019, 47, 213-222.	2.5	8
82	Discrete element and finite element methods provide similar estimations for hip joint contact mechanics during walking gait. <i>Journal of Biomechanics</i> , 2021, 115, 110163.	2.1	8
83	Structure, composition and fibril-reinforced poroviscoelastic properties of bovine knee ligaments and patellar tendon. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200737.	3.4	8
84	A numerical framework for mechano-regulated tendon healing—Simulation of early regeneration of the Achilles tendon. <i>PLoS Computational Biology</i> , 2021, 17, e1008636.	3.2	8
85	High-resolution infrared microspectroscopic characterization of cartilage cell microenvironment. <i>Acta Biomaterialia</i> , 2021, 134, 252-260.	8.3	8
86	Shear strain and inflammation-induced fixed charge density loss in the knee joint cartilage following ACL injury and reconstruction: A computational study. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1505-1522.	2.3	8
87	Subject-specific biomechanical analysis to estimate locations susceptible to osteoarthritis—Finite element modeling and MRI follow-up of ACL reconstructed patients. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1744-1755.	2.3	8
88	Early changes in osteochondral tissues in a rabbit model of post-traumatic osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2556-2567.	2.3	7
89	Optical spectroscopic characterization of human meniscus biomechanical properties. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	7
90	A musculoskeletal finite element model of rat knee joint for evaluating cartilage biomechanics during gait. <i>PLoS Computational Biology</i> , 2022, 18, e1009398.	3.2	7

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91	Modeling of interstitial fluid movement in soft tissue under negative pressure – relevance to treatment of tissue swelling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1089-1098.	1.6	6
92	Iterative and discrete reconstruction in the evaluation of the rabbit model of osteoarthritis. <i>Scientific Reports</i> , 2018, 8, 12051.	3.3	6
93	An in silico Framework of Cartilage Degeneration That Integrates Fibril Reorientation and Degradation Along With Altered Hydration and Fixed Charge Density Loss. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 680257.	4.1	6
94	Expediting Finite Element Analyses for Subject-Specific Studies of Knee Osteoarthritis: A Literature Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11440.	2.5	6
95	In vivo assessment of the passive stretching response of the bicompartamental human semitendinosus muscle using shear-wave elastography. <i>Journal of Applied Physiology</i> , 2022, 132, 438-447.	2.5	6
96	Computational Models of Articular Cartilage. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-2.	1.3	5
97	Optical coherence tomography enables accurate measurement of equine cartilage thickness for determination of speed of sound. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 87, 418-424.	3.3	5
98	Guide to mechanical characterization of articular cartilage and hydrogel constructs based on a systematic in silico parameter sensitivity analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 124, 104795.	3.1	5
99	Structural, compositional, and functional effects of blunt and sharp cartilage damage on the joint: A 9-month equine groove model study. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2363-2375.	2.3	5
100	Toward Tailored Rehabilitation by Implementation of a Novel Musculoskeletal Finite Element Analysis Pipeline. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 789-802.	4.9	5
101	Dual-contrast micro-CT enables cartilage lesion detection and tissue condition evaluation ex vivo. <i>Equine Veterinary Journal</i> , 2023, 55, 315-324.	1.7	5
102	Rapid X-Ray-Based 3-D Finite Element Modeling of Medial Knee Joint Cartilage Biomechanics During Walking. <i>Annals of Biomedical Engineering</i> , 2022, 50, 666-679.	2.5	5
103	Ultrasound Assessment of Human Meniscus. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1753-1763.	1.5	4
104	Changes in subchondral bone structure and mechanical properties do not substantially affect cartilage mechanical responses – A finite element study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 128, 105129.	3.1	4
105	Deformation behaviors and mechanical impairments of tissue cracks in immature and mature cartilages. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2103-2112.	2.3	4
106	Crack propagation in articular cartilage under cyclic loading using cohesive finite element modeling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 131, 105227.	3.1	4
107	The effect of body configuration on the strain magnitude and distribution within the acetabulum during sideways falls: A finite element approach. <i>Journal of Biomechanics</i> , 2021, 114, 110156.	2.1	3
108	Back-Side Wear in HexLoc Cups Clinico-Radiological, Immunohistopathological, Finite Element, and Retrieval Analysis Studies. <i>Journal of Long-Term Effects of Medical Implants</i> , 2014, 24, 319-331.	0.7	3



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109	Effect of osteoporosis-related reduction in the mechanical properties of bone on the acetabular fracture during a sideways fall: A parametric finite element approach. PLoS ONE, 2022, 17, e0263458.	2.5	3
110	Effect of Impact Velocity, Flooring Material, and Trochanteric Soft-Tissue Quality on Acetabular Fracture during a Sideways Fall: A Parametric Finite Element Approach. Applied Sciences (Switzerland), 2021, 11, 365.	2.5	2
111	Deep Learning Classification of Cartilage Integrity Using Near Infrared Spectroscopy. , 2018, , .		2
112	Clinical Contrast-Enhanced Computed Tomography With Semi-Automatic Segmentation Provides Feasible Input for Computational Models of the Knee Joint. Journal of Biomechanical Engineering, 2020, 142, .	1.3	2
113	Near infrared spectroscopic evaluation of biochemical and crimp properties of knee joint ligaments and patellar tendon. PLoS ONE, 2022, 17, e0263280.	2.5	2
114	Biomechanical, biochemical, and near infrared spectral data of bovine knee ligaments and patellar tendon. Data in Brief, 2021, 36, 106976.	1.0	1
115	Effect of cells on spatial quantification of proteoglycans in articular cartilage of small animals. Connective Tissue Research, 2022, 63, 603-614.	2.3	1
116	Site- and Zone-Dependent Changes in Proteoglycan Content and Biomechanical Properties of Bluntly and Sharply Grooved Equine Articular Cartilage. Annals of Biomedical Engineering, 2022, 50, 1787-1797.	2.5	1
117	Title is missing!. , 2020, 16, e1007998.		0
118	Title is missing!. , 2020, 16, e1007998.		0
119	Title is missing!. , 2020, 16, e1007998.		0