

Hiromichi Fujie

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,155
citations

394421

19
h-index

223800

46
g-index

59
all docs

59
docs citations

59
times ranked

1353
citing authors

#	ARTICLE	IF	CITATIONS
1	Singleâ€ versus twoâ€ femoral socket anterior cruciate ligament reconstruction technique. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2001, 17, 708-716.	2.7	227
2	Cartilage repair using an in vitro generated scaffold-free tissue-engineered construct derived from porcine synovial mesenchymal stem cells. Biomaterials, 2007, 28, 5462-5470.	11.4	211
3	The Use of a Universal Force-Moment Sensor to Determine In-Situ Forces in Ligaments: A New Methodology. Journal of Biomechanical Engineering, 1995, 117, 1-7.	1.3	204
4	The Use of Robotics Technology to Study Human Joint Kinematics: A New Methodology. Journal of Biomechanical Engineering, 1993, 115, 211-217.	1.3	187
5	Determination of their situ forces and force distribution within the human anterior cruciate ligament. Annals of Biomedical Engineering, 1995, 23, 467-474.	2.5	134
6	The influence of skeletal maturity on allogenic synovial mesenchymal stem cell-based repair of cartilage in a large animal model. Biomaterials, 2010, 31, 8004-8011.	11.4	128
7	<i>In Vitro</i> Generation of a Scaffold-Free Tissue-Engineered Construct (TEC) Derived from Human Synovial Mesenchymal Stem Cells: Biological and Mechanical Properties and Further Chondrogenic Potential. Tissue Engineering - Part A, 2008, 14, 2041-2049.	3.1	120
8	Forces and moments in six-DOF at the human knee joint: Mathematical description for control. Journal of Biomechanics, 1996, 29, 1577-1585.	2.1	114
9	Optimization of Graft Fixation at the Time of Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2008, 36, 1087-1093.	4.2	69
10	A Novel Robotic System for Joint Biomechanical Tests: Application to the Human Knee Joint. Journal of Biomechanical Engineering, 2004, 126, 54-61.	1.3	67
11	Osteochondral Repair Using a Scaffold-Free Tissue-Engineered Construct Derived from Synovial Mesenchymal Stem Cells and a Hydroxyapatite-Based Artificial Bone. Tissue Engineering - Part A, 2014, 20, 2291-2304.	3.1	66
12	Optimization of Graft Fixation at the Time of Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2008, 36, 1094-1100.	4.2	55
13	Biomechanical Comparison Between the Rectangular-Tunnel and the Round-Tunnel Anterior Cruciate Ligament Reconstruction Procedures With a Boneâ€ Patellar Tendonâ€ Bone Graft. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2014, 30, 1294-1302.	2.7	51
14	Intervertebral disc regeneration with an adipose mesenchymal stem cell-derived tissue-engineered construct in a rat nucleotomy model. Acta Biomaterialia, 2019, 87, 118-129.	8.3	46
15	Next Generation Mesenchymal Stem Cell (MSC)â€Based Cartilage Repair Using Scaffold-Free Tissue Engineered Constructs Generated with Synovial Mesenchymal Stem Cells. Cartilage, 2015, 6, 13S-29S.	2.7	44
16	Detection of abnormalities in the superficial zone of cartilage repaired using a tissue engineered construct derived from synovial stem cells. , 2012, 24, 292-307.		41
17	Effect of radial meniscal tear on in situ forces of meniscus and tibiofemoral relationship. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 355-361.	4.2	37
18	Scaffold-free tissue engineering for injured joint surface restoration. Journal of Experimental Orthopaedics, 2018, 5, 2.	1.8	32

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19	Effect of Calcium Phosphateâ€“Hybridized Tendon Graft on Biomechanical Behavior in Anterior Cruciate Ligament Reconstruction in a Goat Model. <i>American Journal of Sports Medicine</i> , 2011, 39, 1059-1066.	4.2	31
20	ACL Function in Bicruciate-Retaining Total Knee Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, e114.	3.0	22
21	Zone-specific integrated cartilage repair using a scaffold-free tissue engineered construct derived from allogenic synovial mesenchymal stem cells: Biomechanical and histological assessments. <i>Journal of Biomechanics</i> , 2015, 48, 4101-4108.	2.1	21
22	Kinematics and Laxity of the Ankle Joint in Anatomic and Nonanatomic Anterior Talofibular Ligament Repair: A Biomechanical Cadaveric Study. <i>American Journal of Sports Medicine</i> , 2019, 47, 667-673.	4.2	19
23	A Biomechanical Comparison of Single-, Double-, and Triple-Bundle Anterior Cruciate Ligament Reconstructions Using a Hamstring Tendon Graft. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2019, 35, 896-905.	2.7	19
24	Different effects of the lateral meniscus complete radial tear on the load distribution and transmission functions depending on the tear site. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 342-351.	4.2	19
25	Effect of Calcium Phosphateâ€“Hybridized Tendon Graft in Anatomic Single-Bundle ACL Reconstruction in Goats. <i>Orthopaedic Journal of Sports Medicine</i> , 2016, 4, 232596711666265.	1.7	18
26	Comparison of 2 Different Formulations of Artificial Bone for a Hybrid Implant With a Tissue-Engineered Construct Derived From Synovial Mesenchymal Stem Cells: A Study Using a Rabbit Osteochondral Defect Model. <i>American Journal of Sports Medicine</i> , 2017, 45, 666-675.	4.2	18
27	Human iPS cell-derived cartilaginous tissue spatially and functionally replaces nucleus pulposus. <i>Biomaterials</i> , 2022, 284, 121491.	11.4	17
28	The in situ force in the calcaneofibular ligament and the contribution of this ligament to ankle joint stability. <i>Clinical Biomechanics</i> , 2016, 40, 8-13.	1.2	13
29	Use of Robotic Manipulators to Study Diarthrodial Joint Function. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	1.3	13
30	Surface Morphology and Stiffness of Cartilage-Like Tissue Repaired with a Scaffold-Free Tissue Engineered Construct. <i>Journal of Biomechanical Science and Engineering</i> , 2011, 6, 40-48.	0.3	11
31	Morphological Observations of Mesenchymal Stem Cell Adhesion to a Nanoperiodic-Structured Titanium Surface Patterned Using Femtosecond Laser Processing. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 125203.	1.5	10
32	Complementary Function of the Meniscomfemoral Ligament and Lateral Meniscus Posterior Root to Stabilize the Lateral Meniscus Posterior Horn: A Biomechanical Study in a Porcine Knee Model. <i>Orthopaedic Journal of Sports Medicine</i> , 2019, 7, 232596711882160.	1.7	9
33	Effect of Initial Graft Tension During Calcaneofibular Ligament Reconstruction on Ankle Kinematics and Laxity. <i>American Journal of Sports Medicine</i> , 2018, 46, 2935-2941.	4.2	8
34	Biomechanical Effects of Tibial Plateau Levelling Osteotomy on Joint Instability in Normal Canine Stifles: An In Vitro Study. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2020, 33, 301-307.	0.5	8
35	Stem Cell-Based Self-Assembled Tissues Cultured on a Nano-Periodic-Structured Surface Patterned Using Femtosecond Laser Processing. <i>International Journal of Automation Technology</i> , 2016, 10, 55-61.	1.0	8
36	Effect of Initial Graft Tension During Anterior Talofibular Ligament Reconstruction on Ankle Kinematics, Laxity, and In Situ Forces of the Reconstructed Graft. <i>American Journal of Sports Medicine</i> , 2020, 48, 916-922.	4.2	7

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37	Designing Elastic Modulus of Cell Culture Substrate to Regulate YAP and RUNX2 Localization for Controlling Differentiation of Human Mesenchymal Stem Cells. <i>Analytical Sciences</i> , 2021, 37, 447-451.	1.6	7
38	Stiffness of Canine Stifle Joint Ligaments at Relatively High Rates of Elongation. <i>Journal of Biomechanical Engineering</i> , 1991, 113, 404-409.	1.3	5
39	Varus-valgus instability in the anterior cruciate ligament-deficient knee: effect of posterior tibial load. <i>Journal of Experimental Orthopaedics</i> , 2017, 4, 24.	1.8	4
40	A longitudinal tear in the medial meniscal body decreased the in situ meniscus force under an axial load. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 3457-3465.	4.2	4
41	Frictional properties of articular cartilage-like tissues repaired with a mesenchymal stem cell-based tissue engineered construct. , 2013, 2013, 401-4.		3
42	Analysis of passive tibio-femoral joint movement of Beagle dogs during flexion in cadaveric hind limbs without muscle. <i>Journal of Veterinary Medical Science</i> , 2020, 82, 148-152.	0.9	3
43	Chromatin condensation retains the osteogenic transcription factor, RUNX2, in the nucleus of human mesenchymal stem cells. <i>Journal of Biomechanical Science and Engineering</i> , 2020, 15, 20-00083-20-00083.	0.3	3
44	Effects of the Ankle Flexion Angle During Anterior Talofibular Ligament Reconstruction on Ankle Kinematics, Laxity, and In Situ Forces of the Reconstructed Graft. <i>Foot and Ankle International</i> , 2022, 43, 725-732.	2.3	3
45	A Compressed Collagen Construct for Studying Endothelial-Smooth Muscle Cell Interaction Under High Shear Stress. <i>Annals of Biomedical Engineering</i> , 2022, , 1.	2.5	3
46	Influence of Permeability on the Compressive Property of Articular Cartilage: A Scaffold-Free, Stem Cell-Based Therapy for Cartilage Repair. , 2011, , .		2
47	Investigation of the effects of excessive tibial plateau angle and changes in load on ligament tensile forces in the stifle joints of dogs. <i>American Journal of Veterinary Research</i> , 2021, 82, 459-466.	0.6	2
48	Function of the crocodylian anterior cruciate ligaments. <i>Journal of Morphology</i> , 2021, 282, 1514-1522.	1.2	2
49	Reduction of in situ force through the meniscus with phased inner resection of medial meniscus: an experimental study in a porcine model. <i>Journal of Experimental Orthopaedics</i> , 2020, 7, 21.	1.8	2
50	Mechanical and Biologic Properties of Articular Cartilage Repair Biomaterials. , 2021, , 57-71.		1
51	Scaffold-Free Tissue Engineered Construct (TEC) Derived from Synovial Mesenchymal Stem Cells: Characterization and Demonstration of Efficacy to Cartilage Repair in a Large Animal Model. , 2012, , 751-761.		1
52	Anatomy and Biomechanics of the Human Posterior Cruciate Ligament. , 1994, , 200-214.		1
53	Superficial and Bulk Compressive Properties of Cartilage-Like Tissues Repaired with a Scaffold-Free, Stem Cell-Based Tissue Engineered Construct (TEC)(Machine Elements, Design and Manufacturing). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> . 2010. 76. 2340-2344.	0.2	0
54	Development of a novel robotic system for joint mechanical tests using a real-time controller. <i>Transactions of the JSME (in Japanese)</i> , 2015, 81, 14-00684-14-00684.	0.2	0

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55	Scaffold-Free Stem Cell-Based Tissue Engineering to Repair Cartilage and Its Potential Application to Other Musculoskeletal Tissues. , 2017, , 537-551.		0
56	Osteochondral Repair Using a Hybrid Implant Composed of Stem Cells and Biomaterial. , 2017, , 671-682.		0
57	Designing Culture Substrate for Controlling Mesenchymal Stem Cell Differentiation. Seibutsu Butsuri, 2021, 61, 389-391.	0.1	0