

Constance Chu

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

3,966
citations

147801

31
h-index

118850

62
g-index

75
all docs

75
docs citations

75
times ranked

4515
citing authors

#	ARTICLE	IF	CITATIONS
1	Animal Models for Cartilage Regeneration and Repair. <i>Tissue Engineering - Part B: Reviews</i> , 2010, 16, 105-115.	4.8	419
2	The Clinical Use of Human Cultureâ€“Expanded Autologous Bone Marrow Mesenchymal Stem Cells Transplanted on Platelet-Rich Fibrin Glue in the Treatment of Articular Cartilage Defects. <i>Cartilage</i> , 2010, 1, 253-261.	2.7	282
3	In Vitro Exposure to 0.5% Bupivacaine Is Cytotoxic to Bovine Articular Chondrocytes. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2006, 22, 693-699.	2.7	240
4	The Effect of Platelet-Rich Plasma Formulations and Blood Products on Human Synoviocytes. <i>American Journal of Sports Medicine</i> , 2014, 42, 1204-1210.	4.2	235
5	In Vivo Effects of Single Intra-Articular Injection of 0.5% Bupivacaine on Articular Cartilage. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 599-608.	3.0	194
6	Transient non-integrative expression of nuclear reprogramming factors promotes multifaceted amelioration of aging in human cells. <i>Nature Communications</i> , 2020, 11, 1545.	12.8	183
7	Early diagnosis to enable early treatment of pre-osteoarthritis. <i>Arthritis Research and Therapy</i> , 2012, 14, 212.	3.5	175
8	The Role of ACL Injury in the Development of Posttraumatic Knee Osteoarthritis. <i>Clinics in Sports Medicine</i> , 2013, 32, 1-12.	1.8	169
9	Quantitative Magnetic Resonance Imaging UTE-T2 [*] Mapping of Cartilage and Meniscus Healing After Anatomic Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2014, 42, 1847-1856.	4.2	131
10	Optimizing Clinical Use of Biologics in Orthopaedic Surgery: Consensus Recommendations From the 2018 AAOS/NIH U-13 Conference. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2019, 27, e50-e63.	2.5	122
11	A Systems View of Risk Factors for Knee Osteoarthritis Reveals Insights into the Pathogenesis of the Disease. <i>Annals of Biomedical Engineering</i> , 2015, 43, 376-387.	2.5	106
12	Men and Women Differ in the Biochemical Composition of Platelet-Rich Plasma. <i>American Journal of Sports Medicine</i> , 2018, 46, 409-419.	4.2	86
13	Lidocaine Potentiates the Chondrotoxicity of Methylprednisolone. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2009, 25, 337-347.	2.7	81
14	Osteoarthritis: From Palliation to Prevention. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, e130.	3.0	80
15	Clinical optical coherence tomography of early articular cartilage degeneration in patients with degenerative meniscal tears. <i>Arthritis and Rheumatism</i> , 2010, 62, 1412-1420.	6.7	77
16	Multicomponent <i>T</i> ₂ * mapping of knee cartilage: Technical feasibility ex vivo. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1426-1431.	3.0	77
17	Clinical diagnosis of potentially treatable early articular cartilage degeneration using optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2007, 12, 051703.	2.6	73
18	Dance between biology, mechanics, and structure: A systems-based approach to developing osteoarthritis prevention strategies. <i>Journal of Orthopaedic Research</i> , 2015, 33, 939-947.	2.3	70

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19	Sustained hypoxia enhances chondrocyte matrix synthesis. <i>Journal of Orthopaedic Research</i> , 2009, 27, 793-799.	2.3	64
20	Addition of Mesenchymal Stem Cells to Autologous Platelet-Enhanced Fibrin Scaffolds in Chondral Defects. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 23-34.	3.0	56
21	Release of Bioactive Adeno-Associated Virus from Fibrin Scaffolds: Effects of Fibrin Glue Concentrations. <i>Tissue Engineering - Part A</i> , 2011, 17, 1969-1978.	3.1	55
22	Single-cell mass cytometry reveals cross-talk between inflammation-dampening and inflammation-amplifying cells in osteoarthritic cartilage. <i>Science Advances</i> , 2020, 6, eaay5352.	10.3	52
23	Progressive Chondrocyte Death After Impact Injury Indicates a Need for Chondroprotective Therapy. <i>American Journal of Sports Medicine</i> , 2009, 37, 2318-2322.	4.2	49
24	Early articular cartilage MRI T2 changes after anterior cruciate ligament reconstruction correlate with later changes in T2 and cartilage thickness. <i>Journal of Orthopaedic Research</i> , 2017, 35, 699-706.	2.3	49
25	Cartilage Subsurface Changes to Magnetic Resonance Imaging UTE-T2* 2 Years After Anterior Cruciate Ligament Reconstruction Correlate With Walking Mechanics Associated With Knee Osteoarthritis. <i>American Journal of Sports Medicine</i> , 2018, 46, 565-572.	4.2	48
26	Microribbon-hydrogel composite scaffold accelerates cartilage regeneration in vivo with enhanced mechanical properties using mixed stem cells and chondrocytes. <i>Biomaterials</i> , 2020, 228, 119579.	11.4	43
27	Quantitative MRI UTE-T2* and T2* Show Progressive and Continued Graft Maturation Over 2 Years in Human Patients After Anterior Cruciate Ligament Reconstruction. <i>Orthopaedic Journal of Sports Medicine</i> , 2019, 7, 232596711986305.	1.7	41
28	Optical coherence tomography grading correlates with MRI T2 mapping and extracellular matrix content. <i>Journal of Orthopaedic Research</i> , 2010, 28, 546-552.	2.3	37
29	Platelet-Rich Plasma (PRP) From Older Males With Knee Osteoarthritis Depresses Chondrocyte Metabolism and Upregulates Inflammation. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1760-1770.	2.3	37
30	Minimally Manipulated Bone Marrow Concentrate Compared with Microfracture Treatment of Full-Thickness Chondral Defects. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, 138-146.	3.0	36
31	MRI UTE-T2* profile characteristics correlate to walking mechanics and patient reported outcomes 2 years after ACL reconstruction. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 569-579.	1.3	33
32	Longitudinal changes in knee gait mechanics between 2 and 8 years after anterior cruciate ligament reconstruction. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1478-1486.	2.3	30
33	Optical Coherence Tomography Detection of Subclinical Traumatic Cartilage Injury. <i>Journal of Orthopaedic Trauma</i> , 2010, 24, 577-582.	1.4	29
34	High-resolution ultrashort echo time (UTE) imaging on human knee with AWSOS sequence at 3.0 T. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 204-210.	3.4	27
35	MRI UTE-T2* shows high incidence of cartilage subsurface matrix changes 2 years after ACL reconstruction. <i>Journal of Orthopaedic Research</i> , 2019, 37, 370-377.	2.3	27
36	Gait mechanics 2 years after anterior cruciate ligament reconstruction are associated with longer-term changes in patient-reported outcomes. <i>Journal of Orthopaedic Research</i> , 2017, 35, 634-640.	2.3	26

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37	Mechanically stimulated biomarkers signal cartilage changes over 5 years consistent with disease progression in medial knee osteoarthritis patients. <i>Journal of Orthopaedic Research</i> , 2018, 36, 891-897.	2.3	26
38	Early Changes in Knee Center of Rotation During Walking After Anterior Cruciate Ligament Reconstruction Correlate With Later Changes in Patient-Reported Outcomes. <i>American Journal of Sports Medicine</i> , 2017, 45, 915-921.	4.2	26
39	Effects of doxycycline on mesenchymal stem cell chondrogenesis and cartilage repair. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 385-393.	1.3	24
40	Effects of high heel wear and increased weight on the knee during walking. <i>Journal of Orthopaedic Research</i> , 2015, 33, 405-411.	2.3	24
41	Articular Cartilage Changes in Maturing Athletes. <i>Sports Health</i> , 2014, 6, 18-30.	2.7	20
42	Effects of active feedback gait retraining to produce a medial weight transfer at the foot in subjects with symptomatic medial knee osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2251-2259.	2.3	19
43	Clinical and Basic Science of Cartilage Injury and Arthritis in the Football (Soccer) Athlete. <i>Cartilage</i> , 2012, 3, 63S-68S.	2.7	17
44	Human iPSC-derived chondrocytes mimic juvenile chondrocyte function for the dual advantage of increased proliferation and resistance to IL-1 β . <i>Stem Cell Research and Therapy</i> , 2017, 8, 244.	5.5	17
45	Platelet-Rich Plasma Augmentation for Isolated Arthroscopic Meniscal Repairs Leads to Significantly Lower Failure Rates: A Systematic Review of Comparative Studies. <i>Orthopaedic Journal of Sports Medicine</i> , 2020, 8, 232596712096453.	1.7	16
46	Bridging Disciplines as a pathway to Finding New Solutions for Osteoarthritis a collaborative program presented at the 2019 Orthopaedic Research Society and the Osteoarthritis Research Society International. <i>Osteoarthritis and Cartilage Open</i> , 2020, 2, 100026.	2.0	16
47	Repeatability of ultrashort echo time-based two-component T_2^* measurements on cartilages in human knee at 3 T. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1564-1571.	3.0	14
48	Comparison of Autologous Chondrocyte Implantation and Osteochondral Allograft Transplantation of the Knee in a Large Insurance Database: Reoperation Rate, Complications, and Cost Analysis. <i>Cartilage</i> , 2021, 13, 1187S-1194S.	2.7	12
49	Registration of Magnetic Resonance Image Series for Knee Articular Cartilage Analysis. <i>Cartilage</i> , 2013, 4, 20-27.	2.7	11
50	No Difference in Complication Rates or Patient-Reported Outcomes Between Bone-Patella Tendon-Bone and Quadriceps Tendon Autograft for Anterior Cruciate Ligament Reconstruction. <i>Arthroscopy, Sports Medicine, and Rehabilitation</i> , 2022, 4, e417-e424.	1.7	11
51	Patient-Reported Outcomes and Knee Mechanics Correlate With Patellofemoral Deep Cartilage UTE-T2* 2 Years After Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2021, 49, 675-683.	4.2	10
52	Visualizing pre-osteoarthritis: Integrating MRI UTE-T2* with mechanics and biology to combat osteoarthritis. The 2019 Elizabeth Winston Lanier Kappa Delta Award. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1585-1595.	2.3	10
53	The Feasibility of Randomized Controlled Trials for Early Arthritis Therapies (EARTH) Involving Acute Anterior Cruciate Ligament Tear Cohorts. <i>American Journal of Sports Medicine</i> , 2012, 40, 2648-2652.	4.2	8
54	Activating the somatosensory system enhances net quadriceps moment during gait. <i>Journal of Biomechanics</i> , 2019, 82, 149-155.	2.1	8

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55	Changes in knee adduction moment wearing a variable stiffness shoe correlate with changes in pain and mechanically stimulated cartilage oligomeric matrix levels. <i>Journal of Orthopaedic Research</i> , 2021, 39, 619-627.	2.3	8
56	Short-term Analysis vs Long-term Data on Total Hip Replacement Survivorship. <i>JAMA Surgery</i> , 2015, 150, 989.	4.3	6
57	The Challenge and the Promise of Bone Marrow Cells for Human Cartilage Repair. <i>Cartilage</i> , 2015, 6, 36S-45S.	2.7	5
58	Changes in stair ascent biomechanics two to eight years after ACL reconstruction are associated with patient-reported outcomes. <i>Gait and Posture</i> , 2019, 69, 91-95.	1.4	5
59	Vertical ground reaction force 2 years after anterior cruciate ligament reconstruction predicts 10-year patient-reported outcomes. <i>Journal of Orthopaedic Research</i> , 2022, 40, 129-137.	2.3	5
60	Can we afford to ignore the biology of joint healing and graft incorporation after ACL reconstruction?. <i>Journal of Orthopaedic Research</i> , 2022, 40, 55-64.	2.3	5
61	Defining Pre-Osteoarthritis Is Key to Prevention. <i>Cartilage</i> , 2016, 7, 204-204.	2.7	4
62	Utilizing the somatosensory system via vibratory stimulation to mitigate knee pain during walking: Randomized clinical trial. <i>Gait and Posture</i> , 2020, 80, 37-43.	1.4	4
63	Cartilage oligomeric matrix protein responses to a mechanical stimulus associate with ambulatory loading in individuals with anterior cruciate ligament reconstruction. <i>Journal of Orthopaedic Research</i> , 2022, 40, 791-798.	2.3	4
64	Biologic Augmentation for the Operative Treatment of Osteochondral Defects of the Knee: A Systematic Review. <i>Orthopaedic Journal of Sports Medicine</i> , 2021, 9, 2325967121110497.	1.7	4
65	Cartilage Matrix Degeneration Occurs within the First Year after ACLR and Is Associated with Impaired Clinical Outcome. <i>Cartilage</i> , 2021, 13, 1809S-1818S.	2.7	3
66	Concepts Important to Secondary Prevention of Posttraumatic Osteoarthritis. <i>Journal of Athletic Training</i> , 2019, 54, 987-988.	1.8	2
67	Early clinical findings may predict long-term development of radiographic knee osteoarthritis in patients with anterior cruciate ligament reconstruction. <i>Annals of Joint</i> , 0, 3, 72-72.	1.0	0
68	Adaptive Sports and the Warrior Athlete. <i>Sports Medicine and Arthroscopy Review</i> , 2019, 27, 41-41.	2.3	0
69	Quantitative Magnetic Resonance Imaging of Articular Cartilage Structure and Biology. , 2021, , 37-50.		0
70	ACL Reconstruction and Progression of OA. , 2017, , 467-475.		0
71	Articular Cartilage: Injury, Restoration, and Preservation. <i>Operative Techniques in Orthopaedics</i> , 2022, , 100964.	0.1	0