

# James Hui

## List of Publications by Year in descending order

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101  
papers

7,397  
citations

66315

42  
h-index

54882

84  
g-index

106  
all docs

106  
docs citations

106  
times ranked

9576  
citing authors

#	ARTICLE	IF	CITATIONS
1	MSC exosomes mediate cartilage repair by enhancing proliferation, attenuating apoptosis and modulating immune reactivity. <i>Biomaterials</i> , 2018, 156, 16-27.	5.7	606
2	Autologous Bone Marrow-Derived Mesenchymal Stem Cells Versus Autologous Chondrocyte Implantation. <i>American Journal of Sports Medicine</i> , 2010, 38, 1110-1116.	1.9	510
3	Concise Review: Multifaceted Characterization of Human Mesenchymal Stem Cells for Use in Regenerative Medicine. <i>Stem Cells Translational Medicine</i> , 2017, 6, 2173-2185.	1.6	502
4	Exosomes derived from human embryonic mesenchymal stem cells promote osteochondral regeneration. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 2135-2140.	0.6	480
5	Identification of Common Pathways Mediating Differentiation of Bone Marrow- and Adipose Tissue-Derived Human Mesenchymal Stem Cells into Three Mesenchymal Lineages. <i>Stem Cells</i> , 2007, 25, 750-760.	1.4	377
6	MSC exosome as a cell-free MSC therapy for cartilage regeneration: Implications for osteoarthritis treatment. <i>Seminars in Cell and Developmental Biology</i> , 2017, 67, 56-64.	2.3	351
7	Injectable Mesenchymal Stem Cell Therapy for Large Cartilage Defects—A Porcine Model. <i>Stem Cells</i> , 2007, 25, 2964-2971.	1.4	285
8	A Comparison Between the Chondrogenic Potential of Human Bone Marrow Stem Cells (BMSCs) and Adipose-Derived Stem Cells (ADSCs) Taken from the Same Donors. <i>Tissue Engineering</i> , 2007, 13, 659-666.	4.9	187
9	Pharmacokinetics and Pharmacodynamics of GS-9350: A Novel Pharmacokinetic Enhancer Without Anti-HIV Activity. <i>Clinical Pharmacology and Therapeutics</i> , 2010, 87, 322-329.	2.3	182
10	Osteoid Osteoma. <i>Journal of Pediatric Orthopaedics</i> , 2006, 26, 695-700.	0.6	181
11	Hyaluronic acid-based hydrogels functionalized with heparin that support controlled release of bioactive BMP-2. <i>Biomaterials</i> , 2012, 33, 6113-6122.	5.7	168
12	Establishing Criteria for Human Mesenchymal Stem Cell Potency. <i>Stem Cells</i> , 2015, 33, 1878-1891.	1.4	163
13	Biomimetic hydrogels for chondrogenic differentiation of human mesenchymal stem cells to neocartilage. <i>Biomaterials</i> , 2010, 31, 7298-7307.	5.7	161
14	An Analysis of Soft Tissue Allograft Anterior Cruciate Ligament Reconstruction in a Rabbit Model. <i>American Journal of Sports Medicine</i> , 2007, 35, 962-971.	1.9	152
15	The potential of human fetal mesenchymal stem cells for off-the-shelf bone tissue engineering application. <i>Biomaterials</i> , 2012, 33, 2656-2672.	5.7	138
16	Not All MSCs Can Act as Pericytes: Functional In Vitro Assays to Distinguish Pericytes from Other Mesenchymal Stem Cells in Angiogenesis. <i>Stem Cells and Development</i> , 2013, 22, 2347-2355.	1.1	135
17	Idiopathic Scoliosis in Singapore Schoolchildren. <i>Spine</i> , 2005, 30, 1188-1196.	1.0	134
18	Substrate topography determines the fate of chondrogenesis from human mesenchymal stem cells resulting in specific cartilage phenotype formation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1507-1516.	1.7	104

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19	Cross-talk between TGF-beta/SMAD and integrin signaling pathways in regulating hypertrophy of mesenchymal stem cell chondrogenesis under deferral dynamic compression. <i>Biomaterials</i> , 2015, 38, 72-85.	5.7	96
20	Doseâ€“Response of Ritonavir on Hepatic CYP3A Activity and Elvitegravir Oral Exposure. <i>Clinical Pharmacology and Therapeutics</i> , 2009, 85, 64-70.	2.3	93
21	The influence of fibrin based hydrogels on the chondrogenic differentiation of human bone marrow stromal cells. <i>Biomaterials</i> , 2010, 31, 38-47.	5.7	92
22	The influence of collagen and hyaluronan matrices on the delivery and bioactivity of bone morphogenetic protein-2 and ectopic bone formation. <i>Acta Biomaterialia</i> , 2013, 9, 9098-9106.	4.1	87
23	Pharmacokinetics and Bioavailability of an Integrase and Novel Pharmacoenhancer-Containing Single-Tablet Fixed-Dose Combination Regimen for the Treatment of HIV. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2010, 55, 323-329.	0.9	81
24	Improved Mesenchymal Stem Cells Attachment and <i>In Vitro</i> Cartilage Tissue Formation on Chitosan-Modified Poly(L-Lactide-epsilon-Caprolactone) Scaffold. <i>Tissue Engineering - Part A</i> , 2012, 18, 242-251.	1.6	79
25	Open Reduction and Annular Ligament Reconstruction With Fascia of the Forearm in Chronic Monteggia Lesions in Children. <i>Journal of Pediatric Orthopaedics</i> , 2005, 25, 501-506.	0.6	76
26	Comparative Study of the Ability of Mesenchymal Stem Cells Derived from Bone Marrow, Periosteum, and Adipose Tissue in Treatment of Partial Growth Arrest in Rabbit. <i>Tissue Engineering</i> , 2005, 11, 904-912.	4.9	73
27	The Evaluation of a Biphasic Osteochondral Implant Coupled with an Electrospun Membrane in a Large Animal Model. <i>Tissue Engineering - Part A</i> , 2010, 16, 1123-1141.	1.6	73
28	Cartilage repair in the degenerative ageing knee. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 87, 26-38.	1.2	73
29	Affinity-selected heparan sulfate for bone repair. <i>Biomaterials</i> , 2013, 34, 5594-5605.	5.7	72
30	Cartilaginous ECM component-modification of the micro-bead culture system for chondrogenic differentiation of mesenchymal stem cells. <i>Biomaterials</i> , 2007, 28, 4056-4067.	5.7	69
31	Injectable Biodegradable Poly(ethylene glycol)/RGD Peptide Hybrid Hydrogels for in vitro Chondrogenesis of Human Mesenchymal Stem Cells. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1148-1154.	2.0	68
32	Pulmonary function and scoliosis in children with spinal muscular atrophy types II and III. <i>Journal of Paediatrics and Child Health</i> , 2003, 39, 673-676.	0.4	65
33	The Combined Effect of Substrate Stiffness and Surface Topography on Chondrogenic Differentiation of Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2017, 23, 43-54.	1.6	62
34	Zincâ€“finger protein 145, acting as an upstream regulator of SOX9, improves the differentiation potential of human mesenchymal stem cells for cartilage regeneration and repair. <i>Arthritis and Rheumatism</i> , 2011, 63, 2711-2720.	6.7	60
35	Treatment of Chondral Lesions in Advanced Osteochondritis Dissecans. <i>Journal of Pediatric Orthopaedics</i> , 2004, 24, 427-433.	0.6	59
36	Equivalent 10-Year Outcomes After Implantation of Autologous Bone Marrowâ€“Derived Mesenchymal Stem Cells Versus Autologous Chondrocyte Implantation for Chondral Defects of the Knee. <i>American Journal of Sports Medicine</i> , 2019, 47, 2881-2887.	1.9	54

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37	Effect of heparin on the biological properties and molecular signature of human mesenchymal stem cells. <i>Gene</i> , 2016, 576, 292-303.	1.0	53
38	Paediatric lateral condyle fractures: a systematic review. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2018, 138, 809-817.	1.3	51
39	Bioequivalence of Efavirenz/Emtricitabine/Tenofovir Disoproxil Fumarate Single-Tablet Regimen. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2007, 46, 167-173.	0.9	50
40	Telomere length analysis of human mesenchymal stem cells by quantitative PCR. <i>Gene</i> , 2013, 519, 348-355.	1.0	47
41	FGFR1 Signaling Stimulates Proliferation of Human Mesenchymal Stem Cells by Inhibiting the Cyclin-Dependent Kinase Inhibitors p21Waf1 and p27Kip1. <i>Stem Cells</i> , 2013, 31, 2724-2736.	1.4	45
42	The Pharmacokinetics and Viral Activity of Tenofovir in the Male Genital Tract. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2008, 47, 329-333.	0.9	44
43	Long-term Follow-up of Pulmonary Function and Scoliosis in Patients With Duchenne's Muscular Dystrophy and Spinal Muscular Atrophy. <i>Journal of Pediatric Orthopaedics</i> , 2016, 36, 63-69.	0.6	44
44	Repair of Osteochondral Defects with Rehydrated Freeze-Dried Oligo[Poly(Ethylene Glycol) Fumarate] Hydrogels Seeded with Bone Marrow Mesenchymal Stem Cells in a Porcine Model. <i>Tissue Engineering - Part A</i> , 2013, 19, 1852-1861.	1.6	41
45	The Difference between Computed Tomography and Magnetic Resonance Imaging Measurements of Tibial Tubercle-Trochlear Groove Distance for Patients with or without Patellofemoral Instability: A Systematic Review and Meta-analysis. <i>Journal of Knee Surgery</i> , 2020, 33, 768-776.	0.9	39
46	Chitin as a Scaffold for Mesenchymal Stem Cells Transfers in the Treatment of Partial Growth Arrest. <i>Journal of Pediatric Orthopaedics</i> , 2004, 24, 205-210.	0.6	35
47	Medications in COVID-19 patients: summarizing the current literature from an orthopaedic perspective. <i>International Orthopaedics</i> , 2020, 44, 1599-1603.	0.9	35
48	Enfuvirtide (T20) Cross-Reacting Glycoprotein 41 Antibody Does Not Impair the Efficacy or Safety of Enfuvirtide. <i>Journal of Infectious Diseases</i> , 2003, 188, 1827-1833.	1.9	34
49	Intra-articular delivery of chondroitin sulfate for the treatment of joint defects in rabbit model. <i>Journal of Molecular Histology</i> , 2007, 38, 483-489.	1.0	32
50	Mesenchymal stem cell therapy for osteoarthritis. <i>Journal of Clinical Orthopaedics and Trauma</i> , 2016, 7, 177-182.	0.6	29
51	Patellar tracking should be taken into account when measuring radiographic parameters for recurrent patellar instability. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 3593-3600.	2.3	29
52	Postoperative Evaluation of the Knee after Autologous Chondrocyte Implantation: What Radiologists Need to Know. <i>Radiographics</i> , 2007, 27, 207-220.	1.4	28
53	Affinity Selection of FGF2-Binding Heparan Sulfates for Ex Vivo Expansion of Human Mesenchymal Stem Cells. <i>Journal of Cellular Physiology</i> , 2017, 232, 566-575.	2.0	27
54	Repair of segmental ulna defects using a $\beta$ -TCP implant in combination with a heparan sulfate glycosaminoglycan variant. <i>Acta Biomaterialia</i> , 2015, 28, 193-204.	4.1	26

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55	Medial Approach for Corrective Osteotomy of Cubitus Varus. <i>Journal of Pediatric Orthopaedics</i> , 2004, 24, 477-481.	0.6	25
56	Hemiepiphysiodesis is a potentially effective surgical management for skeletally immature patients with patellofemoral instability associated with isolated genu valgum. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 845-849.	2.3	23
57	Pharmacokinetic Evaluation of Emtricitabine in Combination With Other Nucleoside Antivirals in Healthy Volunteers. <i>Journal of Clinical Pharmacology</i> , 2007, 47, 877-889.	1.0	22
58	Pharmacokinetic Interaction of Ritonavir-Boosted Elvitegravir and Maraviroc. <i>Journal of Acquired Immune Deficiency Syndromes</i> (1999), 2010, 53, 209-214.	0.9	22
59	Autologous bone marrow clot as an alternative to autograft for bone defect healing. <i>Bone and Joint Research</i> , 2019, 8, 107-117.	1.3	22
60	Osteochondral tissue engineering: Perspectives for clinical application and preclinical development. <i>Journal of Orthopaedic Translation</i> , 2021, 30, 93-102.	1.9	22
61	Directionalities of magnetic fields and topographic scaffolds synergise to enhance MSC chondrogenesis. <i>Acta Biomaterialia</i> , 2021, 119, 169-183.	4.1	21
62	Bone Marrow Derived Mesenchymal Stem Cell Augmentation of Rabbit Flexor Tendon Healing. <i>Hand Surgery</i> , 2015, 20, 421-429.	0.6	20
63	Meniscoplasty leads to good mid-term to long-term outcomes for children and adolescents with discoid lateral meniscus. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 352-357.	2.3	20
64	Demographics and clinical presentation of slipped capital femoral epiphysis in Singapore: comparing the East with the West. <i>Journal of Pediatric Orthopaedics Part B</i> , 2008, 17, 289-292.	0.3	19
65	A serum free approach towards the conservation of chondrogenic phenotype during <i>in vitro</i> cell expansion. <i>Growth Factors</i> , 2009, 27, 321-333.	0.5	18
66	Stem Cell Therapy in Cartilage Repair—Culture-Free and Cell Culture-Based Methods. <i>Operative Techniques in Orthopaedics</i> , 2014, 24, 54-60.	0.2	18
67	Role of high tibial osteotomy in cartilage regeneration—Is correction of malalignment mandatory for success?. <i>Indian Journal of Orthopaedics</i> , 2017, 51, 588.	0.5	18
68	Ascorbate and Iron Are Required for the Specification and Long-Term Self-Renewal of Human Skeletal Mesenchymal Stromal Cells. <i>Stem Cell Reports</i> , 2020, 14, 210-225.	2.3	17
69	Developmental dysplasia of the hip: Promoting global exchanges to enable understanding the disease and improve patient care. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2020, 106, 1243-1244.	0.9	17
70	Digoxin and metabolites in urine and feces; a fluorescence derivatization—high-performance liquid chromatographic technique. <i>Biomedical Applications</i> , 1986, 380, 89-98.	1.7	16
71	Combined Lateral and Transcuneiform without Medial Osteotomy for Residual Clubfoot for Children. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 1319-1325.	0.7	16
72	Strategies to enhance immunomodulatory properties and reduce heterogeneity in mesenchymal stromal cells during <i>ex vivo</i> expansion. <i>Cytotherapy</i> , 2022, 24, 456-472.	0.3	16

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73	A Heparan Sulfate Device for the Regeneration of Osteochondral Defects. <i>Tissue Engineering - Part A</i> , 2019, 25, 352-363.	1.6	15
74	The outcomes of subtalar arthroereisis in pes planus: a systemic review and meta-analysis. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, 141, 761-773.	1.3	15
75	The earliest timing of ultrasound in screening for developmental dysplasia of the hips. <i>Ultrasonography</i> , 2019, 38, 321-326.	1.0	15
76	The Outcomes of Distal Femoral Varus Osteotomy in Patellofemoral Instability: A Systematic Review and Meta-Analysis. <i>Journal of Knee Surgery</i> , 2020, 33, 504-512.	0.9	13
77	The Difference between Cartilaginous and Bony Sulcus Angles for Patients with or without Patellofemoral Instability: A Systematic Review and Meta-Analysis. <i>Journal of Knee Surgery</i> , 2020, 33, 235-241.	0.9	13
78	Exploiting Stem Cell-Extracellular Matrix Interactions for Cartilage Regeneration: A Focus on Basement Membrane Molecules. <i>Current Stem Cell Research and Therapy</i> , 2016, 11, 618-625.	0.6	13
79	The effect of fibrin glue on tendon healing and adhesion formation in a rabbit model of flexor tendon injury and repair. <i>Journal of Plastic Surgery and Hand Surgery</i> , 2013, 47, 509-12.	0.4	13
80	The incidence and risk factors of osteoarthritis following osteochondritis dissecans of the knees: a systematic review and meta-analysis. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 3096-3104.	2.3	11
81	Enhancing the Efficacy of Stem Cell Therapy with Glycosaminoglycans. <i>Stem Cell Reports</i> , 2020, 14, 105-121.	2.3	10
82	Pediatric Femoral Shaft Fracture: An Age-Based Treatment Algorithm. <i>Indian Journal of Orthopaedics</i> , 2021, 55, 55-67.	0.5	10
83	Patella height changes post high tibial osteotomy. <i>Indian Journal of Orthopaedics</i> , 2017, 51, 545.	0.5	9
84	A roundtable on responsible innovation with autologous stem cells in Australia, Japan and Singapore. <i>Cytotherapy</i> , 2018, 20, 1103-1109.	0.3	9
85	Influence of Fibrinogen Concentration on Mesenchymal Stem Cells and Chondrocytes Chondrogenesis in Fibrin Hydrogels. <i>Journal of Biomaterials and Tissue Engineering</i> , 2017, 7, 1136-1145.	0.0	7
86	Incorporating risk factors in the development of the screening programme for developmental dysplasia of the hips. <i>Journal of Pediatric Orthopaedics Part B</i> , 2019, 28, 111-114.	0.3	6
87	COVID-19 and Pediatric Orthopaedics: What's Different?. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e402-e405.	0.6	6
88	Pharmacokinetics, safety, and tolerability of the 2â€•and 3â€•directâ€•acting antiviral combination of <scp>AL</scp>â€•335, odalasvir, and simeprevir in healthy subjects. <i>Pharmacology Research and Perspectives</i> , 2018, 6, e00395.	1.1	5
89	The Outcomes of Isolated Lateral Release in Patellofemoral Instability: A Systematic Review and Meta-Analysis. <i>Journal of Knee Surgery</i> , 2020, 33, 958-965.	0.9	5
90	An electrospun polycaprolactoneâ€•collagen membrane for the resurfacing of cartilage defects. <i>Polymer International</i> , 2010, 59, 808-817.	1.6	4

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91	Commentary: Correlation between Trochlear Dysplasia and Anterior Cruciate Ligament Injury. Journal of Orthopaedic Surgery, 2013, 21, 141-141.	0.4	4
92	The Outcomes of Isolated Distal Realignment Procedures in Patellofemoral Instability: A Systematic Review and Meta-analysis. Journal of Knee Surgery, 2020, 33, 547-552.	0.9	4
93	Human early mesenchymal stromal cells delivered on porous lightweight biodegradable polycaprolactone-based microcarriers result in improved cartilage formation. Materialia, 2020, 13, 100851.	1.3	4
94	Mesenchymal Stem Cell Exosomes Promote Growth Plate Repair and Reduce Limb-Length Discrepancy in Young Rats. Journal of Bone and Joint Surgery - Series A, 2022, 104, 1098-1106.	1.4	4
95	Digoxin Disposition in Elderly Humans with Hypochlorhydria. Journal of Clinical Pharmacology, 1994, 34, 734-741.	1.0	3
96	Cartilage Repair in Asia: Selected Reports on Research and Clinical Trials. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2013, 29, 1991.	1.3	2
97	Neuromuscular scoliosis: how decision making and treatment are different. Current Orthopaedic Practice, 2017, 28, 3-9.	0.1	2
98	Reconstruction of Anterior Cruciate Ligament in Children: Hamstring versus Bone Patella Tendon Bone Graft. Clinics in Sports Medicine, 2011, 30, 751-758.	0.9	1
99	Letter to the Editor: Venous Thromboembolism Prophylaxis After Pelvic and Acetabular Fractures: A Survey of Orthopaedic Surgeons' Current Practices. Journal of the American Academy of Orthopaedic Surgeons, The, 2020, 28, e872-e873.	1.1	0
100	Letter to the Editor: Does an Antimicrobial Incision Drape Prevent Intraoperative Contamination? A Randomized Controlled Trial of 1187 Patients. Clinical Orthopaedics and Related Research, 2020, 478, 1950-1952.	0.7	0
101	A pioneer in sports medicine passed away. Journal of Orthopaedic Surgery, 2021, 29, 230949902110573.	0.4	0