

Patrick Orth

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,620
citations

257101

24
h-index

288905

40
g-index

55
all docs

55
docs citations

55
times ranked

1756
citing authors

#	ARTICLE	IF	CITATIONS
1	Small Subchondral Drill Holes Improve Marrow Stimulation of Articular Cartilage Defects. American Journal of Sports Medicine, 2014, 42, 2741-2750.	1.9	119
2	Effect of Subchondral Drilling on the Microarchitecture of Subchondral Bone. American Journal of Sports Medicine, 2012, 40, 828-836.	1.9	109
3	Experimental scoring systems for macroscopic articular cartilage repair correlate with the MOCART score assessed by a high-field MRI at 9.4T – comparative evaluation of five macroscopic scoring systems in a large animal cartilage defect model. Osteoarthritis and Cartilage, 2012, 20, 1046-1055.	0.6	99
4	Direct rAAV SOX9 administration for durable articular cartilage repair with delayed terminal differentiation and hypertrophy in vivo. Journal of Molecular Medicine, 2013, 91, 625-636.	1.7	80
5	Autologous Matrix-Induced Chondrogenesis: A Systematic Review of the Clinical Evidence. American Journal of Sports Medicine, 2019, 47, 222-231.	1.9	77
6	Microfracture for cartilage repair in the knee: a systematic review of the contemporary literature. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 670-706.	2.3	73
7	Small-Diameter Awls Improve Articular Cartilage Repair After Microfracture Treatment in a Translational Animal Model. American Journal of Sports Medicine, 2016, 44, 209-219.	1.9	67
8	Parathyroid hormone [1-34] improves articular cartilage surface architecture and integration and subchondral bone reconstitution in osteochondral defects in vivo. Osteoarthritis and Cartilage, 2013, 21, 614-624.	0.6	64
9	Current perspectives in stem cell research for knee cartilage repair. Stem Cells and Cloning: Advances and Applications, 2014, 7, 1.	2.3	64
10	Acceleration of articular cartilage repair by combined gene transfer of human insulin-like growth factor I and fibroblast growth factor-2 in vivo. Archives of Orthopaedic and Trauma Surgery, 2010, 130, 1311-1322.	1.3	58
11	Transplanted articular chondrocytes co-overexpressing IGF-I and FGF-2 stimulate cartilage repair in vivo. Knee Surgery, Sports Traumatology, Arthroscopy, 2011, 19, 2119-2130.	2.3	57
12	Bone Marrow Aspirate Concentrate-Enhanced Marrow Stimulation of Chondral Defects. Stem Cells International, 2017, 2017, 1-13.	1.2	56
13	Temporal and spatial migration pattern of the subchondral bone plate in a rabbit osteochondral defect model. Osteoarthritis and Cartilage, 2012, 20, 1161-1169.	0.6	55
14	Reliability, Reproducibility, and Validation of Five Major Histological Scoring Systems for Experimental Articular Cartilage Repair in the Rabbit Model. Tissue Engineering - Part C: Methods, 2012, 18, 329-339.	1.1	55
15	Improved repair of chondral and osteochondral defects in the ovine trochlea compared with the medial condyle. Journal of Orthopaedic Research, 2013, 31, 1772-1779.	1.2	49
16	Gene Therapy for Cartilage Repair. Cartilage, 2011, 2, 201-225.	1.4	48
17	Subchondral drilling for articular cartilage repair: a systematic review of translational research. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	37
18	PTH [1-34]-induced alterations of the subchondral bone provoke early osteoarthritis. Osteoarthritis and Cartilage, 2014, 22, 813-821.	0.6	35

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19	Effect of open wedge high tibial osteotomy on the lateral compartment in sheep. Part I: analysis of the lateral meniscus. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2013, 21, 39-48.	2.3	32
20	Reduction of Sample Size Requirements by Bilateral Versus Unilateral Research Designs in Animal Models for Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 885-891.	1.1	31
21	Coagulation Abnormalities in Osteonecrosis and Bone Marrow Edema Syndrome. <i>Orthopedics</i> , 2013, 36, 290-300.	0.5	31
22	A low morbidity surgical approach to the sheep femoral trochlea. <i>BMC Musculoskeletal Disorders</i> , 2013, 14, 5.	0.8	26
23	Analysis of Novel Nonviral Gene Transfer Systems for Gene Delivery to Cells of the Musculoskeletal System. <i>Molecular Biotechnology</i> , 2008, 38, 137-144.	1.3	25
24	Comprehensive analysis of translational osteochondral repair: Focus on the histological assessment. <i>Progress in Histochemistry and Cytochemistry</i> , 2015, 50, 19-36.	5.1	24
25	Role of the Subchondral Bone in Articular Cartilage Degeneration and Repair. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2016, 24, e45-e46.	1.1	24
26	Advancement of the Subchondral Bone Plate in Translational Models of Osteochondral Repair: Implications for Tissue Engineering Approaches. <i>Tissue Engineering - Part B: Reviews</i> , 2015, 21, 504-520.	2.5	22
27	Analysis of spatial osteochondral heterogeneity in advanced knee osteoarthritis exposes influence of joint alignment. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	21
28	Early loss of subchondral bone following microfracture is counteracted by bone marrow aspirate in a translational model of osteochondral repair. <i>Scientific Reports</i> , 2017, 7, 45189.	1.6	20
29	The anatomy of the anterolateral structures of the knee – A histologic and macroscopic approach. <i>Knee</i> , 2019, 26, 636-646.	0.8	19
30	Effects of solid acellular type-I/III collagen biomaterials on in vitro and in vivo chondrogenesis of mesenchymal stem cells. <i>Expert Review of Medical Devices</i> , 2017, 14, 717-732.	1.4	15
31	rAAV-Mediated Human FGF-2 Gene Therapy Enhances Osteochondral Repair in a Clinically Relevant Large Animal Model Over Time In Vivo. <i>American Journal of Sports Medicine</i> , 2021, 49, 958-969.	1.9	15
32	Complex and elementary histological scoring systems for articular cartilage repair. <i>Histology and Histopathology</i> , 2015, 30, 911-9.	0.5	14
33	Macroscopic cartilage repair scoring of defect fill, integration and total points correlate with corresponding items in histological scoring systems – a study in adult sheep. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 581-588.	0.6	13
34	Small-Diameter Subchondral Drilling Improves DNA and Proteoglycan Content of the Cartilaginous Repair Tissue in a Large Animal Model of a Full-Thickness Chondral Defect. <i>Journal of Clinical Medicine</i> , 2020, 9, 1903.	1.0	12
35	A novel algorithm for a precise analysis of subchondral bone alterations. <i>Scientific Reports</i> , 2016, 6, 32982.	1.6	11
36	Genetic Modification of Human Peripheral Blood Aspirates Using Recombinant Adeno-Associated Viral Vectors for Articular Cartilage Repair with a Focus on Chondrogenic Transforming Growth Factor- β Gene Delivery. <i>Stem Cells Translational Medicine</i> , 2017, 6, 249-260.	1.6	11

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37	Capnocytophaga canimorsus " An underestimated cause of periprosthetic joint infection?. Knee, 2017, 24, 876-881.	0.8	10
38	Peripheral blood aspirates overexpressing IGF1 via rAAV gene transfer undergo enhanced chondrogenic differentiation processes. Journal of Cellular and Molecular Medicine, 2017, 21, 2748-2758.	1.6	9
39	Investigation of microstructural alterations of the human subchondral bone following microfracture penetration reveals effect of three-dimensional device morphology. Clinical and Translational Medicine, 2020, 10, e230.	1.7	5
40	Role of Serum Lipoprotein at the Site of Iloprost Therapy in the Treatment of Painful Bone Marrow Edema. Orthopedics, 2013, 36, e1283-9.	0.5	4
41	Subchondral Drilling Independent of Drill Hole Number Improves Articular Cartilage Repair and Reduces Subchondral Bone Alterations Compared With Debridement in Adult Sheep. American Journal of Sports Medicine, 2022, 50, 2669-2679.	1.9	3
42	A simple technique for adjustment of the femoral offset at the site of hip spacer implantation. Journal of Surgical Technique and Case Report, 2013, 5, 18.	0.2	2
43	Gouty tophus in the quadriceps tendon: exclude malignancy. Lancet, The, 2019, 394, 2197.	6.3	1
44	A Rare Case of Acetabulum Osteomyelitis Mimicking Bone Sarcoma. Orthopedics, 2014, 37, e750-3.	0.5	0
45	Axial knee alignment influences the repair of focal articular cartilage defects " A translational study in sheep. Osteoarthritis and Cartilage, 2015, 23, A143-A144.	0.6	0
46	Cartilage Repair: Arthroscopic Microfractures. , 2016, , 189-196.		0
47	rAAV SOX9 gene transfer stimulates the chondrogenic differentiation activities in human peripheral blood aspirates. Osteoarthritis and Cartilage, 2018, 26, S143.	0.6	0
48	ICL 16: Subchondral Bone and Reason for Surgery. , 2014, , 139-161.		0