Patrick Orth

List of Publications by Year
in descending order

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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	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
2	rAAV-Mediated Human FGF-2 Gene Therapy Enhances Osteochondral Repair in a Clinically Relevant Large Animal Model Over Time In Vivo. American Journal of Sports Medicine, 2021, 49, 958-969.	1.9	15
3	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
4	Analysis of spatial osteochondral heterogeneity in advanced knee osteoarthritis exposes influence of joint alignment. Science Translational Medicine, 2020, 12, .	5.8	21
5	Investigation of microstructural alterations of the human subchondral bone following microfracture penetration reveals effect of threeâ€dimensional device morphology. Clinical and Translational Medicine, 2020, 10, e230.	1.7	5
6	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. Journal of Clinical Medicine, 2020, 9, 1903.	1.0	12
7	The anatomy of the anterolateral structures of the knee â€" A histologic and macroscopic approach. Knee, 2019, 26, 636-646.	0.8	19
8	Gouty tophus in the quadriceps tendon: exclude malignancy. Lancet, The, 2019, 394, 2197.	6.3	1
9	Autologous Matrix-Induced Chondrogenesis: A Systematic Review of the Clinical Evidence. American Journal of Sports Medicine, 2019, 47, 222-231.	1.9	77
10	rAAV SOX9 gene transfer stimulates the chondrogenic differentiation activities in human peripheral blood aspirates. Osteoarthritis and Cartilage, 2018, 26, S143.	0.6	0
11	Subchondral drilling for articular cartilage repair: a systematic review of translational research. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	37
12	Peripheral blood aspirates overexpressing IGFâ€‹ via rAAV gene transfer undergo enhanced chondrogenic differentiation processes. Journal of Cellular and Molecular Medicine, 2017, 21, 2748-2758.	1.6	9
13	Capnocytophaga canimorsus â€" An underestimated cause of periprosthetic joint infection?. Knee, 2017, 24, 876-881.	0.8	10
14	Early loss of subchondral bone following microfracture is counteracted by bone marrow aspirate in a translational model of osteochondral repair. Scientific Reports, 2017, 7, 45189.	1.6	20
15	Macroscopic cartilage repair scoring of defect fill, integration and total points correlate with corresponding items in histological scoring systems â€" a study in adult sheep. Osteoarthritis and Cartilage, 2017, 25, 581-588.	0.6	13
16	Effects of solid acellular type-I/III collagen biomaterials on in vitro and in vivo chondrogenesis of mesenchymal stem cells. Expert Review of Medical Devices, 2017, 14, 717-732.	1.4	15
17	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-Î² Gene Delivery. Stem Cells Translational Medicine, 2017, 6, 249-260.	1.6	11
18	Bone Marrow Aspirate Concentrate-Enhanced Marrow Stimulation of Chondral Defects. Stem Cells International, 2017, 2017, 1-13.	1.2	56

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19	A novel algorithm for a precise analysis of subchondral bone alterations. Scientific Reports, 2016, 6, 32982.	1.6	11
20	Role of the Subchondral Bone in Articular Cartilage Degeneration and Repair. Journal of the American Academy of Orthopaedic Surgeons, The, 2016, 24, e45-e46.	1.1	24
21	Cartilage Repair: Arthroscopic Microfractures. , 2016, , 189-196.		0
22	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
23	Advancement of the Subchondral Bone Plate in Translational Models of Osteochondral Repair: Implications for Tissue Engineering Approaches. Tissue Engineering - Part B: Reviews, 2015, 21, 504-520.	2.5	22
24	Axial knee alignment influences the repair of focal articular cartilage defects â€“ A translational study in sheep. Osteoarthritis and Cartilage, 2015, 23, A143-A144.	0.6	0
25	Comprehensive analysis of translational osteochondral repair: Focus on the histological assessment. Progress in Histochemistry and Cytochemistry, 2015, 50, 19-36.	5.1	24
26	Complex and elementary histological scoring systems for articular cartilage repair. Histology and Histopathology, 2015, 30, 911-9.	0.5	14
27	Current perspectives in stem cell research for knee cartilage repair. Stem Cells and Cloning: Advances and Applications, 2014, 7, 1.	2.3	64
28	Small Subchondral Drill Holes Improve Marrow Stimulation of Articular Cartilage Defects. American Journal of Sports Medicine, 2014, 42, 2741-2750.	1.9	119
29	PTH [1-34]-induced alterations of the subchondral bone provoke early osteoarthritis. Osteoarthritis and Cartilage, 2014, 22, 813-821.	0.6	35
30	A Rare Case of Acetabulum Osteomyelitis Mimicking Bone Sarcoma. Orthopedics, 2014, 37, e750-3.	0.5	0
31	ICL 16: Subchondral Bone and Reason for Surgery. , 2014, , 139-161.		0
32	A low morbidity surgical approach to the sheep femoral trochlea. BMC Musculoskeletal Disorders, 2013, 14, 5.	0.8	26
33	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
34	Effect of open wedge high tibial osteotomy on the lateral compartment in sheep. Part I: analysis of the lateral meniscus. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 39-48.	2.3	32
35	Parathyroid hormone [1-34] improves articular cartilage surface architecture and integration and subchondral bone reconstitution in osteochondral defects inÂvivo. Osteoarthritis and Cartilage, 2013, 21, 614-624.	0.6	64
36	Reduction of Sample Size Requirements by Bilateral Versus Unilateral Research Designs in Animal Models for Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2013, 19, 885-891.	1.1	31

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37	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
38	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
39	Coagulation Abnormalities in Osteonecrosis and Bone Marrow Edema Syndrome. Orthopedics, 2013, 36, 290-300.	0.5	31
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	Effect of Subchondral Drilling on the Microarchitecture of Subchondral Bone. American Journal of Sports Medicine, 2012, 40, 828-836.	1.9	109
42	Experimental scoring systems for macroscopic articular cartilage repair correlate with the MOCART score assessed by a high-field MRI at 9.4ÂT â€“ comparative evaluation of five macroscopic scoring systems in a large animal cartilage defect model. Osteoarthritis and Cartilage, 2012, 20, 1046-1055.	0.6	99
43	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
44	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
45	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
46	Gene Therapy for Cartilage Repair. Cartilage, 2011, 2, 201-225.	1.4	48
47	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
48	Analysis of Novel Nonviral Gene Transfer Systems for Gene Delivery to Cells of the Musculoskeletal System. Molecular Biotechnology, 2008, 38, 137-144.	1.3	25