

Simon C Mastbergen

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

2,782
citations

147566

31
h-index

189595

50
g-index

93
all docs

93
docs citations

93
times ranked

2546
citing authors

#	ARTICLE	IF	CITATIONS
1	In early OA, thinning of the subchondral plate is directly related to cartilage damage: results from a canine ACLT-meniscectomy model. <i>Osteoarthritis and Cartilage</i> , 2010, 18, 691-698.	0.6	135
2	Tissue structure modification in knee osteoarthritis by use of joint distraction: an open 1-year pilot study. <i>Annals of the Rheumatic Diseases</i> , 2011, 70, 1441-1446.	0.5	132
3	Sustained clinical and structural benefit after joint distraction in the treatment of severe knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 1660-1667.	0.6	129
4	A role for subchondral bone changes in the process of osteoarthritis; a micro-CT study of two canine models. <i>BMC Musculoskeletal Disorders</i> , 2008, 9, 20.	0.8	117
5	Functional articular cartilage repair: here, near, or is the best approach not yet clear?. <i>Nature Reviews Rheumatology</i> , 2013, 9, 277-290.	3.5	116
6	Celecoxib: considerations regarding its potential disease-modifying properties in osteoarthritis. <i>Arthritis Research and Therapy</i> , 2011, 13, 239.	1.6	95
7	Pathophysiology of hemophilic arthropathy and potential targets for therapy. <i>Pharmacological Research</i> , 2017, 115, 192-199.	3.1	93
8	Knee joint distraction compared with high tibial osteotomy: a randomized controlled trial. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 876-886.	2.3	79
9	Selective COX-2 inhibition prevents proinflammatory cytokine-induced cartilage damage. <i>British Journal of Rheumatology</i> , 2002, 41, 801-808.	2.5	77
10	Differential direct effects of cyclo-oxygenase-1/2 inhibition on proteoglycan turnover of human osteoarthritic cartilage: an in vitro study. <i>Arthritis Research and Therapy</i> , 2006, 8, R2.	1.6	73
11	Selective COX-2 inhibition is favorable to human early and late-stage osteoarthritic cartilage: a human in vitro study. <i>Osteoarthritis and Cartilage</i> , 2005, 13, 519-526.	0.6	69
12	The chondroprotective effect of selective COX-2 inhibition in osteoarthritis: ex vivo evaluation of human cartilage tissue after in vivo treatment. <i>Osteoarthritis and Cartilage</i> , 2009, 17, 482-488.	0.6	69
13	IL-1 β , in contrast to TNF α , is pivotal in blood-induced cartilage damage and is a potential target for therapy. <i>Blood</i> , 2015, 126, 2239-2246.	0.6	66
14	Synovial fluid hyaluronan mediates MSC attachment to cartilage, a potential novel mechanism contributing to cartilage repair in osteoarthritis using knee joint distraction. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 908-915.	0.5	66
15	Five-Year Follow-up of Knee Joint Distraction: Clinical Benefit and Cartilaginous Tissue Repair in an Open Uncontrolled Prospective Study. <i>Cartilage</i> , 2017, 8, 263-271.	1.4	65
16	Inhibition of COX-2 by celecoxib in the canine groove model of osteoarthritis. <i>Rheumatology</i> , 2006, 45, 405-413.	0.9	64
17	Similarities and discrepancies in subchondral bone structure in two differently induced canine models of osteoarthritis. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1650-1657.	3.1	59
18	The canine "groove" model of osteoarthritis is more than simply the expression of surgically applied damage. <i>Osteoarthritis and Cartilage</i> , 2006, 14, 39-46.	0.6	58

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19	Biochemical markers of joint tissue damage increase shortly after a joint bleed; an explorative human and canine inÂvivo study. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 63-69.	0.6	54
20	Articular Cartilage Degeneration Following the Treatment of Focal Cartilage Defects with Ceramic Metal Implants and Compared with Microfracture. <i>Journal of Bone and Joint Surgery - Series A</i> , 2009, 91, 900-910.	1.4	50
21	Evidence of Cartilage Repair by Joint Distraction in a Canine Model of Osteoarthritis. <i>Arthritis and Rheumatology</i> , 2015, 67, 465-474.	2.9	50
22	Knee joint distraction compared with total knee arthroplasty. <i>Bone and Joint Journal</i> , 2017, 99-B, 51-58.	1.9	48
23	The detrimental effects of iron on the joint: a comparison between haemochromatosis and haemophilia. <i>Journal of Clinical Pathology</i> , 2015, 68, 592-600.	1.0	46
24	The molecular profile of synovial fluid changes upon joint distraction and is associated with clinical response in knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2020, 28, 324-333.	0.6	43
25	Degeneration, inflammation, regeneration, and pain/disability in dogs following destabilization or articular cartilage grooving of the stifle joint. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 1327-1335.	0.6	42
26	Dorsal Root Ganglia Macrophages Maintain Osteoarthritis Pain. <i>Journal of Neuroscience</i> , 2021, 41, 8249-8261.	1.7	41
27	Knee Joint Distraction Compared with High Tibial Osteotomy and Total Knee Arthroplasty: Two-Year Clinical, Radiographic, and Biochemical Marker Outcomes of Two Randomized Controlled Trials. <i>Cartilage</i> , 2021, 12, 181-191.	1.4	38
28	Differential effects of bleeds on the development of arthropathy â€“ basic and applied issues. <i>Haemophilia</i> , 2017, 23, 521-527.	1.0	37
29	Joint distraction for osteoarthritis: clinical evidence and molecular mechanisms. <i>Nature Reviews Rheumatology</i> , 2022, 18, 35-46.	3.5	36
30	A single intraâ€articular injection with <sc>IL</sc>4 plus <sc>IL</sc>10 ameliorates bloodâ€induced cartilage degeneration in haemophilic mice. <i>British Journal of Haematology</i> , 2013, 160, 515-520.	1.2	35
31	Cartilage Quality (dGEMRIC Index) Following Knee Joint Distraction or High Tibial Osteotomy. <i>Cartilage</i> , 2020, 11, 19-31.	1.4	33
32	Changes in subchondral bone early in the development of osteoarthritis. <i>Arthritis and Rheumatism</i> , 2011, 63, 2561-2563.	6.7	32
33	Initial tissue repair predicts long-term clinical success of knee joint distraction as treatment for knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 1604-1608.	0.6	32
34	Synthesis and release of human cartilage matrix proteoglycans are differently regulated by nitric oxide and prostaglandin-E2. <i>Annals of the Rheumatic Diseases</i> , 2008, 67, 52-58.	0.5	30
35	Knee joint distraction in regular care for treatment of knee osteoarthritis: A comparison with clinical trial data. <i>PLoS ONE</i> , 2020, 15, e0227975.	1.1	29
36	IL4-10 fusion protein has chondroprotective, anti-inflammatory and potentially analgesic effects in the treatment of osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 1127-1135.	0.6	27

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37	Metabolic dysregulation accelerates injury-induced joint degeneration, driven by local inflammation; an in vivo rat study. <i>Journal of Orthopaedic Research</i> , 2018, 36, 881-890.	1.2	26
38	Blood-Induced Joint Damage. <i>Cartilage</i> , 2013, 4, 313-320.	1.4	25
39	Enhanced cell-induced articular cartilage regeneration by chondrons; the influence of joint damage and harvest site. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 1910-1917.	0.6	23
40	Groove model of tibia-femoral osteoarthritis in the rat. <i>Journal of Orthopaedic Research</i> , 2017, 35, 496-505.	1.2	23
41	Variable cartilage degradation in mice with diet-induced metabolic dysfunction: food for thought. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 95-107.	0.6	23
42	Human C-reactive protein aggravates osteoarthritis development in mice on a high-fat diet. <i>Osteoarthritis and Cartilage</i> , 2019, 27, 118-128.	0.6	23
43	Comparative lipidomic analysis of synovial fluid in human and canine osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 1470-1478.	0.6	22
44	Six weeks of continuous joint distraction appears sufficient for clinical benefit and cartilaginous tissue repair in the treatment of knee osteoarthritis. <i>Knee</i> , 2016, 23, 785-791.	0.8	21
45	A fusion protein of interleukin-4 and interleukin-10 protects against blood-induced cartilage damage in vitro and in vivo. <i>Journal of Thrombosis and Haemostasis</i> , 2017, 15, 1788-1798.	1.9	19
46	Imaging of Folate Receptor Expressing Macrophages in the Rat Groove Model of Osteoarthritis: Using a New DOTA-Folate Conjugate. <i>Cartilage</i> , 2018, 9, 183-191.	1.4	19
47	Knee Joint Distraction as Treatment for Osteoarthritis Results in Clinical and Structural Benefit: A Systematic Review and Meta-Analysis of the Limited Number of Studies and Patients Available. <i>Cartilage</i> , 2021, 13, 1113S-1123S.	1.4	19
48	Gene Expression Signatures of Synovial Fluid Multipotent Stromal Cells in Advanced Knee Osteoarthritis and Following Knee Joint Distraction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 579751.	2.0	18
49	Knee joint distraction results in MRI cartilage thickness increase up to 10 years after treatment. <i>Rheumatology</i> , 2022, 61, 974-982.	0.9	18
50	The canine bilateral groove model of osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1471-1477.	1.2	16
51	Knee Joint Distraction as an Alternative Surgical Treatment for Osteoarthritis: Rationale and Design of two Randomized Controlled Trials (vs High Tibial Osteotomy and Total Knee Prosthesis). <i>International Journal of Orthopaedics (Hong Kong)</i> , 2015, 2, 353-360.	0.1	16
52	The groove model of osteoarthritis applied to the ovine fetlock joint. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 919-928.	0.6	15
53	Changes in Cartilage Thickness and Denuded Bone Area after Knee Joint Distraction and High Tibial Osteotomy—Post-Hoc Analyses of Two Randomized Controlled Trials. <i>Journal of Clinical Medicine</i> , 2021, 10, 368.	1.0	14
54	The Expressions of Dickkopf-Related Protein 1 and Frizzled-Related Protein Are Negatively Correlated to Local Inflammation and Osteoarthritis Severity. <i>Cartilage</i> , 2019, 12, 194760351984167.	1.4	13

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55	Canine IL4-10 fusion protein provides disease modifying activity in a canine model of OA; an exploratory study. PLoS ONE, 2019, 14, e0219587.	1.1	12
56	A short-term evaluation of a thermoplastic polyurethane implant for osteochondral defect repair in an equine model. Veterinary Journal, 2019, 251, 105340.	0.6	11
57	Local and systemic inflammatory lipid profiling in a rat model of osteoarthritis with metabolic dysregulation. PLoS ONE, 2018, 13, e0196308.	1.1	10
58	Dog as a Model for Osteoarthritis: The FGF4 Retrogene Insertion May Matter. Journal of Orthopaedic Research, 2019, 37, 2550-2560.	1.2	10
59	Return to Sport and Work after Randomization for Knee Distraction versus High Tibial Osteotomy: Is There a Difference?. Journal of Knee Surgery, 2022, 35, 949-958.	0.9	10
60	Neuropathic pain in the IMI-APPROACH knee osteoarthritis cohort: prevalence and phenotyping. RMD Open, 2021, 7, e002025.	1.8	10
61	Fib3-3 as a Biomarker for Osteoarthritis in a Rat Model with Metabolic Dysregulation. Cartilage, 2019, 10, 329-334.	1.4	9
62	Subchondral bone changes after joint distraction treatment for end stage knee osteoarthritis. Osteoarthritis and Cartilage, 2022, 30, 965-972.	0.6	9
63	The Role of Interleukin-4 and Interleukin-10 in Osteoarthritic Joint Disease: A Systematic Narrative Review. Cartilage, 2022, 13, 194760352210981.	1.4	9
64	Performance of knee image digital analysis of radiographs of patients with end-stage knee osteoarthritis. Osteoarthritis and Cartilage, 2021, 29, 1530-1539.	0.6	8
65	Reduction of pin tract infections during external fixation using cadexomer iodine. Journal of Experimental Orthopaedics, 2020, 7, 88.	0.8	8
66	Biochemical marker research in hemophilic arthropathy: A systematic review. Blood Reviews, 2021, 47, 100781.	2.8	7
67	Baseline clinical characteristics of predicted structural and pain progressors in the IMI-APPROACH knee OA cohort. RMD Open, 2021, 7, e001759.	1.8	7
68	Technical feasibility of personalized articulating knee joint distraction for treatment of tibiofemoral osteoarthritis. Clinical Biomechanics, 2017, 49, 40-47.	0.5	5
69	Relationship between motion, using the GaitSmart™ system, and radiographic knee osteoarthritis: an explorative analysis in the IMI-APPROACH cohort. Rheumatology, 2021, 60, 3588-3597.	0.9	5
70	The combination of urinary <sc>CTX</sc> and serum <sc>CS</sc>: Promising biochemical markers to predict radiographic progression of haemophilic arthropathy” An exploratory study. Haemophilia, 2018, 24, e278-e280.	1.0	4
71	Proteoglycan synthesis rate as a novel method to measure blood-induced cartilage degeneration in non-haemophilic and haemophilic rats. Haemophilia, 2020, 26, e88-e96.	1.0	4
72	Enhanced Extracellular Matrix Breakdown Characterizes the Early Distraction Phase of Canine Knee Joint Distraction. Cartilage, 2021, 13, 1654S-1664S.	1.4	4

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73	Comparison between 2D radiographic weight-bearing joint space width and 3D MRI non-weight-bearing cartilage thickness measures in the knee using non-weight-bearing 2D and 3D CT as an intermediary. <i>Therapeutic Advances in Chronic Disease</i> , 2021, 12, 204062232110378.	1.1	3
74	Challenges in biomarker research in haemophilic arthropathy. <i>Haemophilia</i> , 2021, 27, e547-e548.	1.0	3
75	On-demand treatment with the iron chelator deferasirox is ineffective in preventing blood-induced joint damage in haemophilic mice. <i>Haemophilia</i> , 2021, 27, 648-656.	1.0	3
76	First preclinical support for the "danger theory"™ in inhibitor development. <i>Haemophilia</i> , 2016, 22, 654-656.	1.0	2
77	IL4-10 Fusion Protein Shows DMOAD Activity in a Rat Osteoarthritis Model. <i>Cartilage</i> , 2021, , 194760352110267.	1.4	2
78	Cartilage Repair Activity during Joint-Preserving Treatment May Be Accompanied by Osteophyte Formation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7156.	1.3	2
79	Knee Joint Distraction in a Dog as Treatment for Severe Osteoarthritis. <i>VCOT Open</i> , 2022, 05, e11-e17.	0.2	2
80	Cartilage integrity and proteoglycan turnover are comparable in canine experimentally induced and human joint degeneration. <i>Rheumatology Reports</i> , 2010, 2, 7.	0.1	1
81	Early evolving joint degeneration by cartilage trauma is primarily mechanically controlled. <i>Knee</i> , 2016, 23, 487-494.	0.8	1
82	User-friendliness of a dedicated orthopedic device for knee joint distraction: Experiences from clinical practice. <i>Journal of Cartilage & Joint Preservation</i> , 2021, 1, 100007.	0.2	1
83	Interleukin-1 β Is Essential for Blood-Induced Cartilage Damage In Vitro. <i>Blood</i> , 2014, 124, 240-240.	0.6	1
84	THE REGENERATION GAME: EFFECTIVE TREATMENT OF OSTEOARTHRITIS USING KNEE JOINT DISTRACTION. <i>Rheumatology</i> , 2017, 56, .	0.9	0
85	THU0434...KNEE JOINT DISTRACTION AS STANDARD OF CARE TREATMENT FOR KNEE OSTEOARTHRITIS: A COMPARISON WITH CLINICAL TRIAL PATIENTS. , 2019, , .		0
86	GaitSmart motion analysis compared to commonly used function outcome measures in the IMI-APPROACH knee osteoarthritis cohort. <i>PLoS ONE</i> , 2022, 17, e0265883.	1.1	0
87	Title is missing!. , 2020, 15, e0227975.		0
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