

# Magnus TÃ¸gil

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,645  
citations

218381

26  
h-index

315357

38  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1795  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bone mineral: A trojan horse for bone cancers. Efficient mitochondria targeted delivery and tumor eradication with nano hydroxyapatite containing doxorubicin. <i>Materials Today Bio</i> , 2022, 14, 100227.	2.6	9
2	A New Augmentation Method for Improved Screw Fixation in Fragile Bone. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 816250.	2.0	6
3	Comparative effectiveness research on proximal femoral nail versus dynamic hip screw in patients with trochanteric fractures: a systematic review and meta-analysis of randomized trials. <i>Journal of Orthopaedic Surgery and Research</i> , 2022, 17, .	0.9	5
4	Augmenting a dynamic hip screw with a calcium sulfate/hydroxyapatite biomaterial. <i>Medical Engineering and Physics</i> , 2021, 92, 102-109.	0.8	7
5	Dual modality neutron and x-ray tomography for enhanced image analysis of the bone-metal interface. <i>Physics in Medicine and Biology</i> , 2021, 66, 135016.	1.6	9
6	Different microbial and resistance patterns in primary total knee arthroplasty infections – a report on 283 patients from Lithuania and Sweden. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 800.	0.8	6
7	Sustained and controlled delivery of doxorubicin from an in-situ setting biphasic hydroxyapatite carrier for local treatment of a highly proliferative human osteosarcoma. <i>Acta Biomaterialia</i> , 2021, 131, 555-571.	4.1	31
8	A combined fracture and mortality risk index useful for treatment stratification in hip fragility fractures. <i>Joint Diseases and Related Surgery</i> , 2021, 32, 583-589.	0.6	10
9	Synthetic hydroxyapatite: a recruiting platform for biologically active molecules. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 91, 126-132.	1.2	19
10	A facile one-stage treatment of critical bone defects using a calcium sulfate/hydroxyapatite biomaterial providing spatiotemporal delivery of bone morphogenic protein <sup>2</sup> and zoledronic acid. <i>Science Advances</i> , 2020, 6, .	4.7	42
11	Bone Damage Evolution Around Integrated Metal Screws Using X-Ray Tomography – in situ Pullout and Digital Volume Correlation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 934.	2.0	16
12	A biphasic nanohydroxyapatite/calcium sulphate carrier containing Rifampicin and Isoniazid for local delivery gives sustained and effective antibiotic release and prevents biofilm formation. <i>Scientific Reports</i> , 2020, 10, 14128.	1.6	28
13	Antibiotic containing bone cement in prevention of hip and knee prosthetic joint infections: A systematic review and meta-analysis. <i>Journal of Orthopaedic Translation</i> , 2020, 23, 53-60.	1.9	29
14	Recycling implants: a sustainable solution for musculoskeletal research. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 91, 125-125.	1.2	3
15	Longitudinal in vivo monitoring of callus remodeling in BMP <sup>7</sup> and Zoledronate <sup>7</sup> treated fractures. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1905-1913.	1.2	9
16	CSA <sup>90</sup> reduces periprosthetic joint infection in a novel rat model challenged with local and systemic <i>Staphylococcus aureus</i> . <i>Journal of Orthopaedic Research</i> , 2020, 38, 2065-2073.	1.2	10
17	Synthesis and Characterization of a Biocomposite Bone Bandage for Controlled Delivery of Bone-Active Drugs in Fracture Nonunions. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2867-2878.	2.6	5
18	Long-Term Response to a Bioactive Biphasic Biomaterial in the Femoral Neck of Osteoporotic Rats. <i>Tissue Engineering - Part A</i> , 2020, 26, 1042-1051.	1.6	9

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19	Locally administered bisphosphonate in hip stem revisions using the bone impaction grafting technique: a randomised, placebo-controlled study with DXA and five-year RSA follow-up. <i>HIP International</i> , 2019, 29, 26-34.	0.9	1
20	Biomodulation of an implant for enhanced bone-implant anchorage. <i>Acta Biomaterialia</i> , 2019, 96, 619-630.	4.1	34
21	Fracture strength of the proximal femur injected with a calcium sulfate/hydroxyapatite bone substitute. <i>Clinical Biomechanics</i> , 2019, 63, 172-178.	0.5	19
22	<sup>18</sup> F-fluoride as a prognostic indicator of bone regeneration. <i>Acta Biomaterialia</i> , 2019, 90, 403-411.	4.1	9
23	Intermediate-Term Outcome After Distal Radius Fracture in Patients With Poor Outcome at 1 Year: A Register Study With a 2- to 12-Year Follow-Up. <i>Journal of Hand Surgery</i> , 2019, 44, 39-45.	0.7	15
24	Guided tissue engineering for healing of cancellous and cortical bone using a combination of biomaterial based scaffolding and local bone active molecule delivery. <i>Biomaterials</i> , 2019, 188, 38-49.	5.7	65
25	The compositional and nano-structural basis of fracture healing in healthy and osteoporotic bone. <i>Scientific Reports</i> , 2018, 8, 1591.	1.6	15
26	Gelatin- hydroxyapatite- calcium sulphate based biomaterial for long term sustained delivery of bone morphogenic protein-2 and zoledronic acid for increased bone formation: In-vitro and in-vivo carrier properties. <i>Journal of Controlled Release</i> , 2018, 272, 83-96.	4.8	58
27	Do we have an opioid crisis in Scandinavia? Time to act?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 89, 368-368.	1.2	7
28	Calcium Sulphate/Hydroxyapatite Carrier for Bone Formation in the Femoral Neck of Osteoporotic Rats. <i>Tissue Engineering - Part A</i> , 2018, 24, 1753-1764.	1.6	21
29	Investigating the Mechanical Characteristics of Bone-Metal Implant Interface Using in situ Synchrotron Tomographic Imaging. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 208.	2.0	20
30	Decreased migration with locally administered bisphosphonate in cemented cup revisions using impaction bone grafting technique. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 89, 17-22.	1.2	4
31	Fragment-Specific Fixation Versus Volar Locking Plates in Primarily Nonreducible or Secondarily Redisplaced Distal Radius Fractures: A Randomized Controlled Study. <i>Journal of Hand Surgery</i> , 2017, 42, 156-165.e1.	0.7	40
32	Nano-Hydroxyapatite Bone Substitute Functionalized with Bone Active Molecules for Enhanced Cranial Bone Regeneration. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6816-6828.	4.0	91
33	Composite Biomaterial as a Carrier for Bone-Active Substances for Metaphyseal Tibial Bone Defect Reconstruction in Rats. <i>Tissue Engineering - Part A</i> , 2017, 23, 1403-1412.	1.6	23
34	Similar 1-year subjective outcome after a distal radius fracture during the 10-year-period 2003–2012. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 88, 451-456.	1.2	19
35	Neutron tomographic imaging of bone-implant interface: Comparison with X-ray tomography. <i>Bone</i> , 2017, 103, 295-301.	1.4	29
36	Characterization of the bone-metal implant interface by Digital Volume Correlation of in-situ loading using neutron tomography. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 271-278.	1.5	41

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37	Biocomposite macroporous cryogels as potential carrier scaffolds for bone active agents augmenting bone regeneration. <i>Journal of Controlled Release</i> , 2016, 235, 365-378.	4.8	45
38	Tissue reaction and material biodegradation of a calcium sulfate/apatite biphasic bone substitute in rat muscle. <i>Journal of Orthopaedic Translation</i> , 2016, 6, 10-17.	1.9	16
39	A Biphasic Calcium Sulphate/Hydroxyapatite Carrier Containing Bone Morphogenic Protein-2 and Zoledronic Acid Generates Bone. <i>Scientific Reports</i> , 2016, 6, 26033.	1.6	52
40	Study of <i>in Vitro</i> and <i>in Vivo</i> Bone Formation in Composite Cryogels and the Influence of Electrical Stimulation. <i>International Journal of Biological Sciences</i> , 2015, 11, 1325-1336.	2.6	20
41	Arthroscopically Diagnosed Scapholunate Ligament Injuries Associated With Distal Radial Fractures: A 13- to 15-Year Follow-Up. <i>Journal of Hand Surgery</i> , 2015, 40, 1077-1082.	0.7	48
42	Influence of systemic bisphosphonate treatment on mechanical properties of BMP-induced calluses in a rat fracture model: Comparison of three-point bending and twisting test. <i>Journal of Orthopaedic Research</i> , 2014, 32, 721-726.	1.2	17
43	Investigating the synergistic efficacy of BMP-7 and zoledronate on bone allografts using an open rat osteotomy model. <i>Bone</i> , 2013, 56, 440-448.	1.4	60
44	The composite of hydroxyapatite and calcium sulphate: a review of preclinical evaluation and clinical applications. <i>Expert Review of Medical Devices</i> , 2013, 10, 675-684.	1.4	56
45	Augmentation of autologous bone graft by a combination of bone morphogenic protein and bisphosphonate increased both callus volume and strength. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 84, 106-111.	1.2	69
46	Osteotomy of distal radius fracture malunion using a fast remodeling bone substitute consisting of calcium sulphate and calcium phosphate. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 92B, 281-286.	1.6	63
47	Intermittent PTH(1-34) does not increase union rates in open rat femoral fractures and exhibits attenuated anabolic effects compared to closed fractures. <i>Bone</i> , 2010, 46, 852-859.	1.4	67
48	Osteotomy of dorsally displaced malunited fractures of the distal radius: No loss of radiographic correction during healing with a minimally invasive fixation technique and an injectable bone substitute. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008, 79, 262-268.	1.2	28
49	Distal Radioulnar Joint Replacement. <i>Techniques in Hand and Upper Extremity Surgery</i> , 2007, 11, 109-114.	0.3	23
50	Systemic zoledronate precoating of a bone graft reduces bone resorption during remodeling. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 77, 23-26.	1.2	28
51	Intravenous regional administration of corticosteroids in juvenile chronic arthritis. <i>Acta Orthopaedica</i> , 2004, 75, 352-354.	1.4	0
52	Alendronate prevents collapse in mechanically loaded osteochondral grafts A bone chamber study in rats. <i>Acta Orthopaedica</i> , 2004, 75, 756-761.	1.4	32
53	Bone morphology in relation to the migration of porous-coated anatomic knee arthroplasties. <i>Journal of Arthroplasty</i> , 2003, 18, 649-653.	1.5	9
54	No augmentation of morselized and impacted bone graft by OP-1 in a weight-bearing model. <i>Acta Orthopaedica</i> , 2003, 74, 742-748.	1.4	30

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55	Fibrous tissue armoring increases the mechanical strength of an impacted bone graft. Acta Orthopaedica, 2001, 72, 78-82.	1.4	47
56	The morselized and impacted bone graft. Acta Orthopaedica, 2000, 71, i-40.	1.4	18
57	Reduced expression of BMP-3 due to mechanical loading: A link between mechanical stimuli and tissue differentiation. Acta Orthopaedica, 2000, 71, 558-562.	1.4	41
58	Incomplete incorporation of morselized and impacted autologous bone graft: A histological study in 4 intracorporally grafted lumbar fractures. Acta Orthopaedica, 1999, 70, 555-558.	1.4	24
59	Cartilage induction by controlled mechanical stimulation in vivo. Journal of Orthopaedic Research, 1999, 17, 200-204.	1.2	54
60	Bone graft proteins influence osteoconduction: A titanium chamber study in rats. Acta Orthopaedica, 1996, 67, 377-382.	1.4	34
61	Bone Remodeling after Ulna Head Replacement in Distal Radioulnar Joint Arthroplasty: A Radiographic Comparison between a Partial and a Total Ulna Head Concept. Journal of Wrist Surgery, 0, , .	0.3	0