

Romano Matthys

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

882
citations

566801

15
h-index

580395

25
g-index

25
all docs

25
docs citations

25
times ranked

1144
citing authors

#	ARTICLE	IF	CITATIONS
1	Small animal bone healing models: Standards, tips, and pitfalls results of a consensus meeting. <i>Bone</i> , 2011, 49, 591-599.	1.4	141
2	Fracture healing in mice under controlled rigid and flexible conditions using an adjustable external fixator. <i>Journal of Orthopaedic Research</i> , 2010, 28, 1456-1462.	1.2	98
3	Melatonin Impairs Fracture Healing by Suppressing RANKL-Mediated Bone Remodeling. <i>Journal of Surgical Research</i> , 2012, 173, 83-90.	0.8	68
4	Longitudinal intravital imaging of the femoral bone marrow reveals plasticity within marrow vasculature. <i>Nature Communications</i> , 2017, 8, 2153.	5.8	67
5	Development of a Stable Closed Femoral Fracture Model in Mice. <i>Journal of Surgical Research</i> , 2009, 153, 71-75.	0.8	66
6	Ex vivo analysis of rotational stiffness of different osteosynthesis techniques in mouse femur fracture. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1152-1156.	1.2	50
7	An internal locking plate to study intramembranous bone healing in a mouse femur fracture model. <i>Journal of Orthopaedic Research</i> , 2010, 28, 397-402.	1.2	50
8	Sildenafil accelerates fracture healing in mice. <i>Journal of Orthopaedic Research</i> , 2011, 29, 867-873.	1.2	46
9	Fixation compliance in a mouse osteotomy model induces two different processes of bone healing but does not lead to delayed union. <i>Journal of Biomechanics</i> , 2009, 42, 2089-2096.	0.9	42
10	Internal fixator for use in the mouse. <i>Injury</i> , 2009, 40, S103-S109.	0.7	40
11	Plunging When Drilling. <i>Journal of Orthopaedic Trauma</i> , 2012, 26, 482-487.	0.7	33
12	The Locking Mouse Nail – A New Implant for Standardized Stable Osteosynthesis in Mice. <i>Journal of Surgical Research</i> , 2011, 169, 220-226.	0.8	31
13	A Novel Murine Femoral Segmental Critical-Sized Defect Model Stabilized by Plate Osteosynthesis for Bone Tissue Engineering Purposes. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 271-280.	1.1	31
14	Mechanical evaluation of a new minimally invasive device for stabilization of proximal humeral fractures in elderly patients A cadaver study. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2007, 78, 430-435.	1.2	23
15	A new model to analyze metaphyseal bone healing in mice. <i>Journal of Surgical Research</i> , 2012, 178, 715-721.	0.8	18
16	In vivo gait analysis in a mouse femur fracture model. <i>Journal of Biomechanics</i> , 2010, 43, 3240-3243.	0.9	16
17	Evaluation of high-resolution In Vivo MRI for longitudinal analysis of endochondral fracture healing in mice. <i>PLoS ONE</i> , 2017, 12, e0174283.	1.1	14
18	Limbostomy: Longitudinal Intravital Microendoscopy in Murine Osteotomies. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 483-495.	1.1	10

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19	Biomechanical comparison of pin and tension-band wire fixation with a prototype locking plate fixation in a transverse canine patellar fracture model. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2016, 29, 20-28.	0.2	8
20	An Intramedullary Locking Nail for Standardized Fixation of Femur Osteotomies to Analyze Normal and Defective Bone Healing in Mice. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	8
21	Characterization of interfragmentary motion associated with common osteosynthesis devices for rat fracture healing studies. <i>PLoS ONE</i> , 2017, 12, e0176735.	1.1	8
22	Genetic variation in mice affects closed femoral fracture pattern outcomes. <i>Injury</i> , 2019, 50, 639-647.	0.7	6
23	<i>In Vivo</i> Evaluation of Fracture Callus Development During Bone Healing in Mice Using an MRI-compatible Osteosynthesis Device for the Mouse Femur. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	4
24	A novel MRI compatible mouse fracture model to characterize and monitor bone regeneration and tissue composition. <i>Scientific Reports</i> , 2020, 10, 16238.	1.6	3
25	A New Model to Study Healing of a Complex Femur Fracture with Concurrent Soft Tissue Injury in Sheep. <i>Open Journal of Orthopedics</i> , 2013, 03, 62-68.	0.0	1