

Romano Matthys

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25
papers

691
citations

14
h-index

25
g-index

25
ext. papers

796
ext. citations

3.5
avg, IF

3.09
L-index

#	Paper	IF	Citations
25	Small animal bone healing models: standards, tips, and pitfalls results of a consensus meeting. <i>Bone</i> , 2011 , 49, 591-9	4.7	118
24	Fracture healing in mice under controlled rigid and flexible conditions using an adjustable external fixator. <i>Journal of Orthopaedic Research</i> , 2010 , 28, 1456-62	3.8	80
23	Development of a stable closed femoral fracture model in mice. <i>Journal of Surgical Research</i> , 2009 , 153, 71-5	2.5	57
22	Melatonin impairs fracture healing by suppressing RANKL-mediated bone remodeling. <i>Journal of Surgical Research</i> , 2012 , 173, 83-90	2.5	50
21	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	3.8	45
20	Longitudinal intravital imaging of the femoral bone marrow reveals plasticity within marrow vasculature. <i>Nature Communications</i> , 2017 , 8, 2153	17.4	41
19	Sildenafil accelerates fracture healing in mice. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 867-73	3.8	39
18	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, 2089-96	2.9	39
17	Internal fixator for use in the mouse. <i>Injury</i> , 2009 , 40 Suppl 4, S103-9	2.5	34
16	Ex vivo analysis of rotational stiffness of different osteosynthesis techniques in mouse femur fracture. <i>Journal of Orthopaedic Research</i> , 2009 , 27, 1152-6	3.8	34
15	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, 271-80	2.9	27
14	Plunging when drilling: effect of using blunt drill bits. <i>Journal of Orthopaedic Trauma</i> , 2012 , 26, 482-7	3.1	24
13	The LockingMouseNail--a new implant for standardized stable osteosynthesis in mice. <i>Journal of Surgical Research</i> , 2011 , 169, 220-6	2.5	22
12	A new model to analyze metaphyseal bone healing in mice. <i>Journal of Surgical Research</i> , 2012 , 178, 715-215		16
11	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, 430-5	4.3	13
10	Evaluation of high-resolution In Vivo MRI for longitudinal analysis of endochondral fracture healing in mice. <i>PLoS ONE</i> , 2017 , 12, e0174283	3.7	12
9	In vivo gait analysis in a mouse femur fracture model. <i>Journal of Biomechanics</i> , 2010 , 43, 3240-3	2.9	11

8	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 ,	1.6	7
7	Characterization of interfragmentary motion associated with common osteosynthesis devices for rat fracture healing studies. <i>PLoS ONE</i> , 2017 , 12, e0176735	3.7	6
6	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, 20-8	1.2	6
5	In Vivo 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 ,	1.6	4
4	Genetic variation in mice affects closed femoral fracture pattern outcomes. <i>Injury</i> , 2019 , 50, 639-647	2.5	2
3	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	4.6	2
2	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	0.1	1
1	A novel MRI compatible mouse fracture model to characterize and monitor bone regeneration and tissue composition. <i>Scientific Reports</i> , 2020 , 10, 16238	4.9	1