Lutz Claes

List of Publications by Year
in descending order

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22 papers	2,828 citations	430442 18 h-index	676716 22 g-index
22 all docs	22 docs citations	22 times ranked	2985 citing authors

#	Article	IF	Citations
1	Intramembranous bone formation after callus distraction is augmented by increasing axial compressive strain. PLoS ONE, 2018, 13, e0195466.	1.1	9
2	The mode of interfragmentary movement affects bone formation and revascularization after callus distraction. PLoS ONE, 2018, 13, e0202702.	1.1	32
3	Simulating lateral distraction osteogenesis. PLoS ONE, 2018, 13, e0194500.	1.1	12
4	The effect of a combined thoracic and soft-tissue trauma on blood flow and tissue formation in fracture healing in rats. Archives of Orthopaedic and Trauma Surgery, 2017, 137, 945-952.	1.3	6
5	Novel systems for the application of isolated tensile, compressive, and shearing stimulation of distraction callus tissue. PLoS ONE, 2017, 12, e0189432.	1.1	14
6	Fracture healing under healthy and inflammatory conditions. Nature Reviews Rheumatology, 2012, 8, 133-143.	3.5	904
7	The effect of both a thoracic trauma and a soft-tissue trauma on fracture healing in a rat model. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 82, 223-227.	1.2	24
8	Biomechanical Principles and Mechanobiologic Aspects of Flexible and Locked Plating. Journal of Orthopaedic Trauma, 2011, 25, S4-S7.	0.7	95
9	Late Dynamization by Reduced Fixation Stiffness Enhances Fracture Healing in a Rat Femoral Osteotomy Model. Journal of Orthopaedic Trauma, 2011, 25, 169-174.	0.7	59
10	Metaphyseal fracture healing follows similar biomechanical rules as diaphyseal healing. Journal of Orthopaedic Research, 2011, 29, 425-432.	1.2	65
11	Early dynamization by reduced fixation stiffness does not improve fracture healing in a rat femoral osteotomy model. Journal of Orthopaedic Research, 2009, 27, 22-27.	1.2	85
12	Mechanical characterization of external fixator stiffness for a rat femoral fracture model. Journal of Orthopaedic Research, 2009, 27, 687-693.	1.2	42
13	A novel model to study metaphyseal bone healing under defined biomechanical conditions. Archives of Orthopaedic and Trauma Surgery, 2009, 129, 923-928.	1.3	38
14	Characterisation of a new bioadhesive system based on polysaccharides with the potential to be used as bone glue. Journal of Materials Science: Materials in Medicine, 2009, 20, 2001-2009.	1.7	67
15	Temporary distraction and compression of a diaphyseal osteotomy accelerates bone healing. Journal of Orthopaedic Research, 2008, 26, 772-777.	1.2	51
16	The enhancement of bone regeneration by ultrasound. Progress in Biophysics and Molecular Biology, 2007, 93, 384-398.	1.4	208
17	Moderate soft tissue trauma delays new bone formation only in the early phase of fracture healing. Journal of Orthopaedic Research, 2006, 24, 1178-1185.	1.2	64
18	Low-Intensity Ultrasound Enhances Maturation of Callus after Segmental Transport. Clinical Orthopaedics and Related Research, 2005, 430, 189-194.	0.7	44

#	Article	IF	Citations
19	Inhibition of cortical and cancellous bone formation in glucocorticoid-treated OVX sheep. Bone, 2005, 37, 491-496.	1.4	38
20	Shear movement at the fracture site delays healing in a diaphyseal fracture model. Journal of Orthopaedic Research, 2003, 21, 1011-1017.	1.2	306
21	The effect of mechanical stability on local vascularization and tissue differentiation in callus healing. Journal of Orthopaedic Research, 2002, 20, 1099-1105.	1.2	219
22	Influence of size and stability of the osteotomy gap on the success of fracture healing. Journal of Orthopaedic Research, 1997, 15, 577-584.	1.2	446