

Stephan Zeiter

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

1,467
citations

411340

20
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445137

33
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87
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87
docs citations

87
times ranked

2476
citing authors

#	ARTICLE	IF	CITATIONS
1	Periâ€anesthetic hypothermia in rodents: A factor to consider for accurate and reproducible outcomes in orthopaedic deviceâ€related infection studies. <i>Journal of Orthopaedic Research</i> , 2023, 41, 619-628.	1.2	1
2	Development and characterization of a predictive microCT-based non-union model in Fischer F344 rats. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2022, 142, 579-590.	1.3	3
3	An Antibiotic-Loaded Hydrogel Demonstrates Efficacy as Prophylaxis and Treatment in a Large Animal Model of Orthopaedic Device-Related Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 826392.	1.8	4
4	Computed Tomography-Based Investigation on the Effects of Intravenous Bisphosphonate Administration on Tooth Growth in a Minipig Animal Model. <i>Medicina (Lithuania)</i> , 2022, 58, 778.	0.8	0
5	Continuous Implant Load Monitoring to Assess Bone Healing Statusâ€Evidence from Animal Testing. <i>Medicina (Lithuania)</i> , 2022, 58, 858.	0.8	14
6	Interleukin-1 receptor antagonist enhances the therapeutic efficacy of a low dose of rhBMP-2 in a weight-bearing rat femoral defect model. <i>Acta Biomaterialia</i> , 2022, 149, 189-197.	4.1	3
7	The relation between fracture activity and bone healing with special reference to the early healing phase â€ A preclinical study. <i>Injury</i> , 2021, 52, 71-77.	0.7	18
8	Impact of low bone mass and antiresorptive therapy on antibiotic efficacy in a rat model of orthopaedic deviceâ€related infection. <i>Journal of Orthopaedic Research</i> , 2021, 39, 415-425.	1.2	8
9	Singleâ€stage revision of MRSA orthopaedic deviceâ€related infection in sheep with an antibioticâ€loaded hydrogel. <i>Journal of Orthopaedic Research</i> , 2021, 39, 438-448.	1.2	18
10	Morphology of bony callus growth in healing of a sheep tibial osteotomy. <i>Injury</i> , 2021, 52, 66-70.	0.7	1
11	Emerging electron microscopy and 3D methodologies to interrogate <i>Staphylococcus aureus</i> osteomyelitis in murine models. <i>Journal of Orthopaedic Research</i> , 2021, 39, 376-388.	1.2	5
12	An Exopolysaccharide Produced by <i>Bifidobacterium longum</i> 35624â® Inhibits Osteoclast Formation via a TLR2-Dependent Mechanism. <i>Calcified Tissue International</i> , 2021, 108, 654-666.	1.5	17
13	Humanized Mice Exhibit Exacerbated Abscess Formation and Osteolysis During the Establishment of Implant-Associated <i>Staphylococcus aureus</i> Osteomyelitis. <i>Frontiers in Immunology</i> , 2021, 12, 651515.	2.2	14
14	A Hyaluronic Acid Hydrogel Loaded with Gentamicin and Vancomycin Successfully Eradicates Chronic Methicillin-Resistant <i>Staphylococcus aureus</i> Orthopaedic Infection in a Sheep Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	1.4	27
15	Growth modulation of angular deformities with a novel constant force implant concept-preclinical results. <i>Journal of Children's Orthopaedics</i> , 2021, 15, 137-148.	0.4	1
16	An Improved 2-Aminoimidazole Based Anti-Biofilm Coating for Orthopedic Implants: Activity, Stability, and in vivo Biocompatibility. <i>Frontiers in Microbiology</i> , 2021, 12, 658521.	1.5	4
17	A murine <i>Staphylococcus aureus</i> fracture-related infection model characterised by fracture non-union, staphylococcal abscess communities and myeloid-derived suppressor cells. , 2021, 41, 774-792.		9
18	Is a Block of the Femoral and Sciatic Nerves an Alternative to Epidural Analgesia in Sheep Undergoing Orthopaedic Hind Limb Surgery? A Prospective, Randomized, Double Blinded Experimental Trial. <i>Animals</i> , 2021, 11, 2567.	1.0	3

#	ARTICLE	IF	CITATIONS
19	Short-Term Bone Healing Response to Mechanical Stimulationâ€”A Case Series Conducted on Sheep. <i>Biomedicines</i> , 2021, 9, 988.	1.4	5
20	An Enzybiotic Regimen for the Treatment of Methicillin-Resistant <i>Staphylococcus aureus</i> Orthopaedic Device-Related Infection. <i>Antibiotics</i> , 2021, 10, 1186.	1.5	6
21	Fracture biomechanics influence local and systemic immune responses in a murine fracture-related infection model. <i>Biology Open</i> , 2021, 10, .	0.6	6
22	Programable Active Fixator System for Systematic In Vivo Investigation of Bone Healing Processes. <i>Sensors</i> , 2021, 21, 17.	2.1	7
23	Incorporation of hydroxyapatite into collagen scaffolds enhances the therapeutic efficacy of rhBMP-2 in a weight-bearing femoral defect model. <i>Materials Today Communications</i> , 2021, 29, 102933.	0.9	6
24	Butyrate Inhibits Osteoclast Activity In Vitro and Regulates Systemic Inflammation and Bone Healing in a Murine Osteotomy Model Compared to Antibiotic-Treated Mice. <i>Mediators of Inflammation</i> , 2021, 2021, 1-17.	1.4	17
25	Bacteriophage Therapy for the Prevention and Treatment of Fracture-Related Infection Caused by <i>Staphylococcus aureus</i> : a Preclinical Study. <i>Microbiology Spectrum</i> , 2021, 9, e0173621.	1.2	15
26	Effect of the CCL5-Releasing Fibrin Gel for Intervertebral Disc Regeneration. <i>Cartilage</i> , 2020, 11, 169-180.	1.4	22
27	Orbital floor repair using patient specific osteoinductive implant made by stereolithography. <i>Biomaterials</i> , 2020, 233, 119721.	5.7	39
28	Focused high-energy extracorporeal shockwaves as supplemental treatment in a rabbit model of fracture-related infection. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1351-1358.	1.2	9
29	Evaluation of Preclinical Models for the Testing of Bone Tissue-Engineered Constructs. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 107-117.	1.1	16
30	Local Application of a Gentamicin-Loaded Hydrogel Early After Injury Is Superior to Perioperative Systemic Prophylaxis in a Rabbit Open Fracture Model. <i>Journal of Orthopaedic Trauma</i> , 2020, 34, 231-237.	0.7	10
31	Fentanyl Plasma Concentrations after Application of a Transdermal Patch in Three Different Locations to Refine Postoperative Pain Management in Rabbits. <i>Animals</i> , 2020, 10, 1778.	1.0	8
32	Transdermal Fentanyl Uptake at Two Different Patch Locations in Swiss White Alpine Sheep. <i>Animals</i> , 2020, 10, 1675.	1.0	4
33	Survey on Sheep Usage in Biomedical Research. <i>Animals</i> , 2020, 10, 1528.	1.0	7
34	Development of Surgical Tools and Procedures for Experimental Preclinical Surgery Using Computer Simulations And 3D Printing. <i>International Journal of Online and Biomedical Engineering</i> , 2020, 16, 183.	0.9	3
35	Longitudinal time-lapse in vivo micro-CT reveals differential patterns of peri-implant bone changes after subclinical bacterial infection in a rat model. <i>Scientific Reports</i> , 2020, 10, 20901.	1.6	8
36	A Drug Holiday Reduces the Frequency and Severity of Medication-Related Osteonecrosis of the Jaw in a Minipig Model. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 2179-2192.	3.1	33

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37	Biphasic Plating – In vivo study of a novel fixation concept to enhance mechanobiological fracture healing. <i>Injury</i> , 2020, 51, 1751-1758.	0.7	9
38	Antimicrobial silver-coating for locking plates shows uneventful osteotomy healing and good biocompatibility results of an experimental study in rabbits. <i>Injury</i> , 2020, 51, 830-839.	0.7	5
39	Morphological and biomechanical effects of annulus fibrosus injury and repair in an ovine cervical model. <i>JOR Spine</i> , 2020, 3, e1074.	1.5	22
40	Differences between auto-fluorescence and tetracycline-fluorescence in medication-related osteonecrosis of the jaw—a preclinical proof of concept study in the mini-pig. <i>Clinical Oral Investigations</i> , 2020, 24, 4625-4637.	1.4	13
41	Deriving a dose and regimen for anti-glucosaminidase antibody passive-immunisation for patients with <i>Staphylococcus aureus</i> osteomyelitis. , 2020, 39, 96-107.		14
42	Development of a novel murine delayed secondary fracture healing in vivo model using periosteal cauterization. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2019, 139, 1743-1753.	1.3	5
43	Bacterial osteomyelitis in veterinary orthopaedics: Pathophysiology, clinical presentation and advances in treatment across multiple species. <i>Veterinary Journal</i> , 2019, 250, 44-54.	0.6	36
44	Ventral Surgical Approach for an Intervertebral Disc Degeneration and Regeneration Model in Sheep Cervical Spine: Anatomic Technical Description, Strengths and Limitations. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2019, 32, 389-393.	0.2	3
45	Relative effects of age on implant integration in a rat model: A longitudinal in vivo microct study. <i>Journal of Orthopaedic Research</i> , 2019, 37, 541-552.	1.2	7
46	Recommendations for design and conduct of preclinical in vivo studies of orthopedic device-related infection. <i>Journal of Orthopaedic Research</i> , 2019, 37, 271-287.	1.2	38
47	Introduction of the Anspach drill as a novel surgical driller for creating calvarial defects in animal models. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1183-1191.	1.2	4
48	Medication-related osteonecrosis of the jaw in a minipig model: Parameters for developing a macroscopic, radiological, and microscopic grading scheme. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2019, 47, 1162-1169.	0.7	10
49	Intraoperative loading of calcium phosphate-coated implants with gentamicin prevents experimental <i>Staphylococcus aureus</i> infection in vivo. <i>PLoS ONE</i> , 2019, 14, e0210402.	1.1	21
50	Infection burden and immunological responses are equivalent for polymeric and metallic implant materials in vitro and in a murine model of fracture-related infection. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1095-1106.	1.6	6
51	Report from the 2017 Annual SGV Meeting. <i>Laboratory Animals</i> , 2018, 52, 211-213.	0.5	0
52	A doxycycline inducible, adenoviral bone morphogenetic protein-2 gene delivery system to bone. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e106-e118.	1.3	18
53	Antibiotic Prophylaxis With Cefuroxime: Influence of Duration on Infection Rate With <i>Staphylococcus aureus</i> in a Contaminated Open Fracture Model. <i>Journal of Orthopaedic Trauma</i> , 2018, 32, 190-195.	0.7	4
54	Five Days Granulocyte Colony-Stimulating Factor Treatment Increases Bone Formation and Reduces Gap Size of a Rat Segmental Bone Defect: A Pilot Study. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 5.	2.0	12

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55	A Refined and Clinically more Relevant, Preclinical Osteochondral Defect Model in Rabbits. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2018, 31, A1-A25.	0.2	0
56	Subchondral screw abutment: does it harm the joint cartilage? An in vivo study on sheep tibiae. <i>International Orthopaedics</i> , 2017, 41, 1607-1615.	0.9	5
57	Histamine receptor 2 modifies iNKT cell activity within the inflamed lung. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2017, 72, 1925-1935.	2.7	37
58	Further development of the MRONJ minipig large animal model. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 1503-1514.	0.7	34
59	A large animal model for a failed two-stage revision of intramedullary nail-related infection by methicillin-resistant <i>Staphylococcus aureus</i> . , 2017, 34, 83-98.		13
60	Influence of fracture stability on <i>Staphylococcus epidermidis</i> and <i>Staphylococcus aureus</i> infection in a murine femoral fracture model. , 2017, 34, 321-340.		17
61	Evaluation of an intramedullary bone stabilization system using a light-curable monomer in sheep. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 291-299.	1.6	14
62	Injectable gentamicin-loaded thermo-responsive hyaluronic acid derivative prevents infection in a rabbit model. <i>Acta Biomaterialia</i> , 2016, 43, 185-194.	4.1	60
63	Evaluation of an injectable thermoresponsive hyaluronan hydrogel in a rabbit osteochondral defect model. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1469-1478.	2.1	29
64	Titanium and steel fracture fixation plates with different surface topographies: Influence on infection rate in a rabbit fracture model. <i>Injury</i> , 2016, 47, 633-639.	0.7	35
65	Deficiency of inducible and endothelial nitric oxide synthase results in diminished bone formation and delayed union and nonunion development. <i>Bone</i> , 2016, 83, 111-118.	1.4	27
66	Monitoring immune responses in a mouse model of fracture fixation with and without <i>Staphylococcus aureus</i> osteomyelitis. <i>Bone</i> , 2016, 83, 82-92.	1.4	45
67	Does Metaphyseal Cement Augmentation in Fracture Management Influence the Adjacent Subchondral Bone and Joint Cartilage?. <i>Medicine (United States)</i> , 2015, 94, e414.	0.4	12
68	Spontaneous bilateral avulsion fracture of the tuberositas tibiae in a New Zealand White rabbit – A counterpart to Osgood-Schlatter disease in humans?. <i>Experimental and Toxicologic Pathology</i> , 2015, 67, 223-227.	2.1	1
69	Repeated electrical stimulations as a tool to evoke temporal summation of nociceptive inputs in healthy, non-medicated experimental sheep. <i>Physiology and Behavior</i> , 2015, 142, 85-89.	1.0	7
70	Zoledronate induces osteonecrosis of the jaw in sheep. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 1133-1138.	0.7	13
71	Healing pattern of reamed bone following bone harvesting by a RIA device. , 2015, 29, 97-104.		3
72	Characterization of an Ovine Bilateral Critical Sized Bone Defect Iliac Wing Model to Examine Treatment Modalities Based on Bone Tissue Engineering. <i>BioMed Research International</i> , 2014, 2014, 1-7.	0.9	10

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73	A Standardized Critical Size Defect Model in Normal and Osteoporotic Rats to Evaluate Bone Tissue Engineered Constructs. <i>BioMed Research International</i> , 2014, 2014, 1-5.	0.9	43
74	CD34/CD133 enriched bone marrow progenitor cells promote neovascularization of tissue engineered constructs in vivo. <i>Stem Cell Research</i> , 2014, 13, 465-477.	0.3	51
75	Calcium Phosphate Based Three-Dimensional Cold Plotted Bone Scaffolds for Critical Size Bone Defects. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	13
76	Evaluation of a press-fit osteochondral poly(ester-urethane) scaffold in a rabbit defect model. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 1691-1700.	1.7	16
77	Osseointegration of machined, injection moulded and oxygen plasma modified PEEK implants in a sheep model. <i>Biomaterials</i> , 2014, 35, 3717-3728.	5.7	130
78	Quantitative assessment of the nociceptive withdrawal reflex in healthy, non-medicated experimental sheep. <i>Physiology and Behavior</i> , 2014, 129, 181-185.	1.0	9
79	Augmentation of bone defect healing using a new biocomposite scaffold: An in vivo study in sheep. <i>Acta Biomaterialia</i> , 2010, 6, 3755-3762.	4.1	63
80	The fate of bovine bone marrow stromal cells in hydrogels: a comparison to nucleus pulposus cells and articular chondrocytes. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 310-320.	1.3	23
81	Effect of TGF β 1, BMP-2 and hydraulic pressure on chondrogenic differentiation of bovine bone marrow mesenchymal stromal cells. <i>Biorheology</i> , 2009, 46, 45-55.	1.2	39
82	THE FATE OF BOVINE BONE MARROW STROMAL CELLS IN HYDROGELS. <i>Journal of Biomechanics</i> , 2008, 41, S130.	0.9	2
83	Comparison of Locking and Conventional Screws for Maintenance of Tibial Plateau Positioning and Biomechanical Stability After Locking Tibial Plateau Leveling Osteotomy Plate Fixation. <i>Veterinary Surgery</i> , 2008, 37, 357-365.	0.5	48
84	Accuracy of Fragment Positioning After TPLO and Effect on Biomechanical Stability. <i>Veterinary Surgery</i> , 2008, 37, 366-373.	0.5	16
85	Accuracy of Three Techniques to Determine Cell Viability in 3D Tissues or Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2008, 14, 353-358.	1.1	43
86	Significance of the mechanical environment during regeneration of the intervertebral disc. <i>European Spine Journal</i> , 2005, 14, 874-879.	1.0	4
87	Plate Stabilization With Bone Rivets. <i>Journal of Orthopaedic Trauma</i> , 2004, 18, 279-285.	0.7	7