

Arndt Schilling

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

2,194
citations

304701

22
h-index

233409

45
g-index

68
all docs

68
docs citations

68
times ranked

3787
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypoxia Preconditioned Serum (HPS)-Hydrogel Can Accelerate Dermal Wound Healing in Mice An In Vivo Pilot Study. <i>Biomedicines</i> , 2022, 10, 176.	3.2	5
2	Hypoxia Preconditioned Serum (HPS) Promotes Osteoblast Proliferation, Migration and Matrix Deposition. <i>Biomedicines</i> , 2022, 10, 1631.	3.2	4
3	Investigating the Microchannel Architectures Inside the Subchondral Bone in Relation to Estimated Hip Reaction Forces on the Human Femoral Head. <i>Calcified Tissue International</i> , 2021, 109, 510-524.	3.1	5
4	Hangboard training in advanced climbers: A randomized controlled trial. <i>Scientific Reports</i> , 2021, 11, 13530.	3.3	6
5	Artificial Perception and Semiautonomous Control in Myoelectric Hand Prostheses Increases Performance and Decreases Effort. <i>IEEE Transactions on Robotics</i> , 2021, 37, 1298-1312.	10.3	21
6	On the Utility of Bioimpedance in the Context of Myoelectric Control. <i>IEEE Sensors Journal</i> , 2021, 21, 19505-19515.	4.7	1
7	Estimation of knee and ankle angles during walking using thigh and shank angles. <i>Bioinspiration and Biomimetics</i> , 2021, 16, .	2.9	4
8	The Interaction between microRNAs and the Wnt/ β -Catenin Signaling Pathway in Osteoarthritis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9887.	4.1	18
9	Comparison of Grip Strength in Recreational Climbers and Non-Climbing Athletes A Cross-Sectional Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 129.	2.6	10
10	Sympathectomy aggravates subchondral bone changes during osteoarthritis progression in mice without affecting cartilage degeneration or synovial inflammation. <i>Osteoarthritis and Cartilage</i> , 2021, , .	1.3	9
11	β 2-Adrenoceptor Deficiency Results in Increased Calcified Cartilage Thickness and Subchondral Bone Remodeling in Murine Experimental Osteoarthritis. <i>Frontiers in Immunology</i> , 2021, 12, 801505.	4.8	7
12	Extracellular Vesicles Allow Epigenetic Mechanotransduction between Chondrocytes and Osteoblasts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13282.	4.1	10
13	Impact of Shared Control Modalities on Performance and Usability of Semi-autonomous Prostheses. <i>Frontiers in Neurobotics</i> , 2021, 15, 768619.	2.8	4
14	The Selective Androgen Receptor Modulator Ostarine Improves Bone Healing in Ovariectomized Rats. <i>Calcified Tissue International</i> , 2020, 106, 147-157.	3.1	14
15	Sensory neuropeptides are required for bone and cartilage homeostasis in a murine destabilization-induced osteoarthritis model. <i>Bone</i> , 2020, 133, 115181.	2.9	30
16	Closed-Loop Multi-Amplitude Control for Robust and Dexterous Performance of Myoelectric Prosthesis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 498-507.	4.9	12
17	Effect of Hypoxia Preconditioned Secretomes on Lymphangiogenic and Angiogenic Sprouting: An In Vitro Analysis. <i>Biomedicines</i> , 2020, 8, 365.	3.2	11
18	Continuous Prediction of Joint Angular Positions and Moments: A Potential Control Strategy for Active Knee-Ankle Prostheses. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020, 2, 347-355.	3.2	6

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19	Laser Ablated Periodic Nanostructures on Titanium and Steel Implants Influence Adhesion and Osteogenic Differentiation of Mesenchymal Stem Cells. <i>Materials</i> , 2020, 13, 3526.	2.9	14
20	Inadequate tissue mineralization promotes cancer cell attachment. <i>PLoS ONE</i> , 2020, 15, e0237116.	2.5	2
21	Use of Oral Anticoagulation and Diabetes Do Not Inhibit the Angiogenic Potential of Hypoxia Preconditioned Blood-Derived Secretomes. <i>Biomedicines</i> , 2020, 8, 283.	3.2	9
22	Comparative Evaluation of the Angiogenic Potential of Hypoxia Preconditioned Blood-Derived Secretomes and Platelet-Rich Plasma: An In Vitro Analysis. <i>Biomedicines</i> , 2020, 8, 16.	3.2	11
23	Osteoidosis leads to altered differentiation and function of osteoclasts. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 5665-5674.	3.6	7
24	Estimation of Knee Angles Based on Thigh Motion: A Functional Approach and Implications for High-Level Controlling of Active Prosthetic Knees. <i>IEEE Control Systems</i> , 2020, 40, 49-61.	0.8	14
25	In Vitro Characterization of Hypoxia Preconditioned Serum (HPS) Fibrin Hydrogels: Basis for an Injectable Biomimetic Tissue Regeneration Therapy. <i>Journal of Functional Biomaterials</i> , 2019, 10, 22.	4.4	10
26	Determinants for success in climbing: A systematic review. <i>Journal of Exercise Science and Fitness</i> , 2019, 17, 91-100.	2.2	69
27	Developmental Transformation and Reduction of Connective Cavities within the Subchondral Bone. <i>International Journal of Molecular Sciences</i> , 2019, 20, 770.	4.1	11
28	Current State of Bone Adhesives Necessities and Hurdles. <i>Materials</i> , 2019, 12, 3975.	2.9	36
29	Single Molecule Force Spectroscopy Reveals Two-Domain Binding Mode of Pilus-1 Tip Protein RrgA of <i>Streptococcus pneumoniae</i> to Fibronectin. <i>ACS Nano</i> , 2018, 12, 549-558.	14.6	25
30	Occlusive dressing-induced secretomes influence the migration and proliferation of mesenchymal stem cells and fibroblasts differently. <i>European Journal of Medical Research</i> , 2018, 23, 60.	2.2	7
31	A Conceptual High Level Controller to Walk with Active Foot Prostheses/Orthoses. , 2018, , .		4
32	Current Methods for Skeletal Muscle Tissue Repair and Regeneration. <i>BioMed Research International</i> , 2018, 2018, 1-11.	1.9	92
33	Intestinal Inflammation and Tumor Burden as Determinants for Bone Fragility in APC-Driven Tumorigenesis. <i>Inflammatory Bowel Diseases</i> , 2018, 24, 2386-2393.	1.9	4
34	Effects of RANKL Knockdown by Virus-like Particle-Mediated RNAi in a Rat Model of Osteoporosis. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 12, 443-452.	5.1	9
35	Evaluation of polycaprolactone poly-D,L-lactide copolymer as biomaterial for breast tissue engineering. <i>Polymer International</i> , 2017, 66, 77-84.	3.1	17
36	Perfusion Controlled Mobilization after Lower Extremity Free Flaps Pushing the Limits of Time and Intensity. <i>Journal of Reconstructive Microsurgery</i> , 2017, 33, 179-185.	1.8	8

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37	Bioprinting Cartilage Tissue from Mesenchymal Stem Cells and PEG Hydrogel. <i>Methods in Molecular Biology</i> , 2017, 1612, 391-398.	0.9	43
38	Nano-formulated curcumin accelerates acute wound healing through Dkk-1-mediated fibroblast mobilization and MCP-1-mediated anti-inflammation. <i>NPG Asia Materials</i> , 2017, 9, e368-e368.	7.9	111
39	Ultrasound-assisted liposuction provides a source for functional adipose-derived stromal cells. <i>Cytotherapy</i> , 2017, 19, 1491-1500.	0.7	33
40	High Efficiency Low Cost Fibroblast Nucleofection for GMP Compatible Cell-based Gene Therapy. <i>International Journal of Medical Sciences</i> , 2017, 14, 798-803.	2.5	8
41	Biodegradable poly (lactic acid-co-glycolic acid) scaffolds as carriers for genetically-modified fibroblasts. <i>PLoS ONE</i> , 2017, 12, e0174860.	2.5	9
42	Ultrasound-Assisted Liposuction Does Not Compromise the Regenerative Potential of Adipose-Derived Stem Cells. <i>Stem Cells Translational Medicine</i> , 2016, 5, 248-257.	3.3	40
43	Polylactides in additive biomanufacturing. <i>Advanced Drug Delivery Reviews</i> , 2016, 107, 228-246.	13.7	63
44	Suction assisted liposuction does not impair the regenerative potential of adipose derived stem cells. <i>Journal of Translational Medicine</i> , 2016, 14, 126.	4.4	32
45	Open Source 3D-Printing Approach for Economic and Fast Engineering of Perfusable Vessel-Like Channels Within Cell-Laden Hydrogels. <i>3D Printing and Additive Manufacturing</i> , 2016, 3, 22-31.	2.9	9
46	Hydrogels for Engineering of Perfusable Vascular Networks. <i>International Journal of Molecular Sciences</i> , 2015, 16, 15997-16016.	4.1	204
47	The Fibrin Matrix Regulates Angiogenic Responses within the Hemostatic Microenvironment through Biochemical Control. <i>PLoS ONE</i> , 2015, 10, e0135618.	2.5	43
48	The role of calcitonin receptor signalling in polyethylene particle-induced osteolysis. <i>Acta Biomaterialia</i> , 2015, 14, 125-132.	8.3	10
49	Free conjoined or chimeric medial sural artery perforator flap for the reconstruction of multiple defects in hand. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2015, 68, 565-570.	1.0	20
50	Free Lateral Great Toe Flap for the Reconstruction of Finger Pulp Defects. <i>Journal of Reconstructive Microsurgery</i> , 2015, 31, 277-282.	1.8	17
51	Dorsal plane-shaped advancement flap for the reconstruction of web space in syndactyly without skin grafting: A preliminary report. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2015, 68, e167-e173.	1.0	9
52	Improved properties of bone and cartilage tissue from 3D inkjet-bioprinted human mesenchymal stem cells by simultaneous deposition and photocrosslinking in PEG-GelMA. <i>Biotechnology Letters</i> , 2015, 37, 2349-2355.	2.2	278
53	Effects of extracellular magnesium extract on the proliferation and differentiation of human osteoblasts and osteoclasts in coculture. <i>Acta Biomaterialia</i> , 2015, 27, 294-304.	8.3	158
54	Regeneration through autologous hypoxia preconditioned plasma. <i>Organogenesis</i> , 2014, 10, 164-169.	1.2	20

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55	Effects of extracellular magnesium on the differentiation and function of human osteoclasts. <i>Acta Biomaterialia</i> , 2014, 10, 2843-2854.	8.3	96
56	Modified Technique for One-Stage Treatment of Proximal Phalangeal Enchondromas With Pathologic Fractures. <i>Journal of Hand Surgery</i> , 2014, 39, 1757-1760.	1.6	10
57	Hypoxia-based strategies for angiogenic induction. <i>Organogenesis</i> , 2013, 9, 261-272.	1.2	58
58	Bone fragility and decline in stem cells in prematurely aging DNA repair deficient trichothiodystrophy mice. <i>Age</i> , 2012, 34, 845-861.	3.0	20
59	Divergent Resorbability and Effects on Osteoclast Formation of Commonly Used Bone Substitutes in a Human In Vitro-Assay. <i>PLoS ONE</i> , 2012, 7, e46757.	2.5	25
60	Cell-based resorption assays for bone graft substitutes. <i>Acta Biomaterialia</i> , 2012, 8, 13-19.	8.3	45
61	Bioresorption and Degradation of Biomaterials. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2011, 126, 317-333.	1.1	11
62	Osteoclastic Bioresorption of Biomaterials: Two- and Three-Dimensional Imaging and Quantification. <i>International Journal of Artificial Organs</i> , 2010, 33, 198-203.	1.4	12
63	The Clock Genes Period 2 and Cryptochrome 2 Differentially Balance Bone Formation. <i>PLoS ONE</i> , 2010, 5, e11527.	2.5	94
64	Osteoclastic bioresorption of biomaterials: two- and three-dimensional imaging and quantification. <i>International Journal of Artificial Organs</i> , 2010, 33, 198-203.	1.4	5
65	Osteoclasts and Biomaterials. <i>European Journal of Trauma and Emergency Surgery</i> , 2006, 32, 107-113.	0.3	38
66	Resorbability of bone substitute biomaterials by human osteoclasts. <i>Biomaterials</i> , 2004, 25, 3963-3972.	11.4	145