Arndt Schilling

List of Publications by Year
in descending order

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66	2,194	304743	233421
papers	citations	22 h-index	45 g-index

68	68	68	3787
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hypoxia Preconditioned Serum (HPS)-Hydrogel Can Accelerate Dermal Wound Healing in Miceâ€"An In Vivo Pilot Study. Biomedicines, 2022, 10, 176.	3.2	5
2	Hypoxia Preconditioned Serum (HPS) Promotes Osteoblast Proliferation, Migration and Matrix Deposition. Biomedicines, 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. Calcified Tissue International, 2021, 109, 510-524.	3.1	5
4	Hangboard training in advanced climbers: A randomized controlled trial. Scientific Reports, 2021, 11, 13530.	3.3	6
5	Artificial Perception and Semiautonomous Control in Myoelectric Hand Prostheses Increases Performance and Decreases Effort. IEEE Transactions on Robotics, 2021, 37, 1298-1312.	10.3	21
6	On the Utility of Bioimpedance in the Context of Myoelectric Control. IEEE Sensors Journal, 2021, 21, 19505-19515.	4.7	1
7	Estimation of knee and ankle angles during walking using thigh and shank angles. Bioinspiration and Biomimetics, 2021, 16, .	2.9	4
8	The Interaction between microRNAs and the Wnt/Î²-Catenin Signaling Pathway in Osteoarthritis. International Journal of Molecular Sciences, 2021, 22, 9887.	4.1	18
9	Comparison of Grip Strength in Recreational Climbers and Non-Climbing Athletesâ€"A Cross-Sectional Study. International Journal of Environmental Research and Public Health, 2021, 18, 129.	2.6	10
10	Sympathectomy aggravates subchondral bone changes during osteoarthritis progression in mice without affecting cartilage degeneration or synovial inflammation. Osteoarthritis and Cartilage, 2021, , .	1.3	9
11	Î²2-Adrenoceptor Deficiency Results in Increased Calcified Cartilage Thickness and Subchondral Bone Remodeling in Murine Experimental Osteoarthritis. Frontiers in Immunology, 2021, 12, 801505.	4.8	7
12	Extracellular Vesicles Allow Epigenetic Mechanotransduction between Chondrocytes and Osteoblasts. International Journal of Molecular Sciences, 2021, 22, 13282.	4.1	10
13	Impact of Shared Control Modalities on Performance and Usability of Semi-autonomous Prostheses. Frontiers in Neurorobotics, 2021, 15, 768619.	2.8	4
14	The Selective Androgen Receptor Modulator Ostarine Improves Bone Healing in Ovariectomized Rats. Calcified Tissue International, 2020, 106, 147-157.	3.1	14
15	Sensory neuropeptides are required for bone and cartilage homeostasis in a murine destabilization-induced osteoarthritis model. Bone, 2020, 133, 115181.	2.9	30
16	Closed-Loop Multi-Amplitude Control for Robust and Dexterous Performance of Myoelectric Prosthesis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 498-507.	4.9	12
17	Effect of Hypoxia Preconditioned Secretomes on Lymphangiogenic and Angiogenic Sprouting: An in Vitro Analysis. Biomedicines, 2020, 8, 365.	3.2	11
18	Continuous Prediction of Joint Angular Positions and Moments: A Potential Control Strategy for Active Knee-Ankle Prostheses. IEEE Transactions on Medical Robotics and Bionics, 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. Materials, 2020, 13, 3526.	2.9	14
20	Inadequate tissue mineralization promotes cancer cell attachment. PLoS ONE, 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. Biomedicines, 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. Biomedicines, 2020, 8, 16.	3.2	11
23	Osteoidosis leads to altered differentiation and function of osteoclasts. Journal of Cellular and Molecular Medicine, 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. IEEE Control Systems, 2020, 40, 49-61.	0.8	14
25	In Vitro Characterization of Hypoxia Preconditioned Serum (HPS)â€”Fibrin Hydrogels: Basis for an Injectable Biomimetic Tissue Regeneration Therapy. Journal of Functional Biomaterials, 2019, 10, 22.	4.4	10
26	Determinants for success in climbing: A systematic review. Journal of Exercise Science and Fitness, 2019, 17, 91-100.	2.2	69
27	Developmental Transformation and Reduction of Connective Cavities within the Subchondral Bone. International Journal of Molecular Sciences, 2019, 20, 770.	4.1	11
28	Current State of Bone Adhesivesâ€”Necessities and Hurdles. Materials, 2019, 12, 3975.	2.9	36
29	Single Molecule Force Spectroscopy Reveals Two-Domain Binding Mode of Pilus-1 Tip Protein RrgA of Streptococcus pneumoniae to Fibronectin. ACS Nano, 2018, 12, 549-558.	14.6	25
30	Occlusive dressing-induced secretomes influence the migration and proliferation of mesenchymal stem cells and fibroblasts differently. European Journal of Medical Research, 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. BioMed Research International, 2018, 2018, 1-11.	1.9	92
33	Intestinal Inflammation and Tumor Burden as Determinants for Bone Fragility in APC-Driven Tumorigenesis. Inflammatory Bowel Diseases, 2018, 24, 2386-2393.	1.9	4
34	Effects of RANKL Knockdown by Virus-like Particle-Mediated RNAi in a Rat Model of Osteoporosis. Molecular Therapy - Nucleic Acids, 2018, 12, 443-452.	5.1	9
35	Evaluation of polycaprolactoneâ€‰â€‰poly-D,L-lactide copolymer as biomaterial for breast tissue engineering. Polymer International, 2017, 66, 77-84.	3.1	17
36	Perfusion Controlled Mobilization after Lower Extremity Free Flapsâ€”Pushing the Limits of Time and Intensity. Journal of Reconstructive Microsurgery, 2017, 33, 179-185.	1.8	8

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37	Bioprinting Cartilage Tissue from Mesenchymal Stem Cells and PEG Hydrogel. Methods in Molecular Biology, 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. NPG Asia Materials, 2017, 9, e368-e368.	7.9	111
39	Ultrasound-assisted liposuction provides a source for functional adipose-derived stromal cells. Cytotherapy, 2017, 19, 1491-1500.	0.7	33
40	High Efficiency Low Cost Fibroblast Nucleofection for GMP Compatible Cell-based Gene Therapy. International Journal of Medical Sciences, 2017, 14, 798-803.	2.5	8
41	Biodegradable poly (lactic acid-co-glycolic acid) scaffolds as carriers for genetically-modified fibroblasts. PLoS ONE, 2017, 12, e0174860.	2.5	9
42	Ultrasound-Assisted Liposuction Does Not Compromise the Regenerative Potential of Adipose-Derived Stem Cells. Stem Cells Translational Medicine, 2016, 5, 248-257.	3.3	40
43	Polylactides in additive biomanufacturing. Advanced Drug Delivery Reviews, 2016, 107, 228-246.	13.7	63
44	Suction assisted liposuction does not impair the regenerative potential of adipose derived stem cells. Journal of Translational Medicine, 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. 3D Printing and Additive Manufacturing, 2016, 3, 22-31.	2.9	9
46	Hydrogels for Engineering of Perfusable Vascular Networks. International Journal of Molecular Sciences, 2015, 16, 15997-16016.	4.1	204
47	The Fibrin Matrix Regulates Angiogenic Responses within the Hemostatic Microenvironment through Biochemical Control. PLoS ONE, 2015, 10, e0135618.	2.5	43
48	The role of calcitonin receptor signalling in polyethylene particle-induced osteolysis. Acta Biomaterialia, 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. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2015, 68, 565-570.	1.0	20
50	Free Lateral Great Toe Flap for the Reconstruction of Finger Pulp Defects. Journal of Reconstructive Microsurgery, 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. Journal of Plastic, Reconstructive and Aesthetic Surgery, 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. Biotechnology Letters, 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. Acta Biomaterialia, 2015, 27, 294-304.	8.3	158
54	Regeneration through autologous hypoxia preconditioned plasma. Organogenesis, 2014, 10, 164-169.	1.2	20

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