

Ewald Unger

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

483
citations

759190
12
h-index

713444
21
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37
all docs

37
docs citations

37
times ranked

683
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a 3D printed patient-specific neonatal brain simulation model using multimodality imaging for perioperative management. <i>Pediatric Research</i> , 2022, 91, 64-69.	2.3	4
2	Experimental nerve transfer model in the neonatal rat. <i>Neural Regeneration Research</i> , 2022, 17, 1088.	3.0	2
3	3D printed patient-specific thorax phantom with realistic heterogenous bone radiopacity using filament printer technology. <i>Zeitschrift Fur Medizinische Physik</i> , 2022, 32, 438-452.	1.5	14
4	The impact of 3D-printed LAY-FOMM 40 and LAY-FOMM 60 on L929 cells and human oral fibroblasts. <i>Clinical Oral Investigations</i> , 2021, 25, 1869-1877.	3.0	6
5	Thermal effects of various drill materials during implant site preparationâ€”Ceramic vs. stainless steel drills: A comparative in vitro study in a standardised bovine bone model. <i>Clinical Oral Implants Research</i> , 2021, 32, 154-166.	4.5	8
6	Implantable Fiber Bragg Grating Sensor for Continuous Heart Activity Monitoring: <i>Ex-Vivo</i> and <i>In-Vivo</i> Validation. <i>IEEE Sensors Journal</i> , 2021, 21, 14051-14059.	4.7	11
7	Standard MRI-based attenuation correction for PET/MRI phantoms: a novel concept using MRI-visible polymer. <i>EJNMMI Physics</i> , 2021, 8, 18.	2.7	8
8	Cysto-Vaginoscopy of a 3D-Printed Cloaca Model: A Step toward Personalized Noninvasive Preoperative Assessment in Patients with Complex Anorectal Malformations. <i>European Journal of Pediatric Surgery</i> , 2021, , .	1.3	3
9	Thermal Effects during Bone Preparation and Insertion of Osseointegrated Transfemoral Implants. <i>Sensors</i> , 2021, 21, 6267.	3.8	4
10	Denervation Dynamics After Intramuscular BNT Injection in Patients With Focal Spasticity Monitored by MRI and Dynamometryâ€”a Blinded Randomized Controlled Pilot Study. <i>Frontiers in Neurology</i> , 2021, 12, 719030.	2.4	0
11	Classification of X-Ray Attenuation Properties of Additive Manufacturing and 3D Printing Materials Using Computed Tomography From 70 to 140ÅkVp. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 763960.	4.1	14
12	Optimization for customized trajectories in cone beam computed tomography. <i>Medical Physics</i> , 2020, 47, 4786-4799.	3.0	18
13	3D Printed Biomimetic Rabbit Airway Simulation Model for Nasotracheal Intubation Training. <i>Frontiers in Veterinary Science</i> , 2020, 7, 587524.	2.2	12
14	Pull-out forces of headless compression screws in variations of synthetic bone models imitating different types of scaphoid fractures in good bone quality. <i>Journal of Materials Science: Materials in Medicine</i> , 2020, 31, 92.	3.6	2
15	Wrist movements induce torque and lever force in the scaphoid: an ex vivo study. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 368.	2.3	2
16	Additively Manufactured Patient-Specific Anthropomorphic Thorax Phantom With Realistic Radiation Attenuation Properties. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 385.	4.1	14
17	Protocol analysis of dual-energy CT for optimization of kidney stone detection in virtual non-contrast reconstructions. <i>European Radiology</i> , 2020, 30, 4295-4305.	4.5	17
18	MiniVStimA: A miniaturized easy to use implantable electrical stimulator for small laboratory animals. <i>PLoS ONE</i> , 2020, 15, e0241638.	2.5	5

#	ARTICLE	IF	CITATIONS
19	An anthropomorphic phantom representing a prematurely born neonate for digital x-ray imaging using 3D printing: Proof of concept and comparison of image quality from different systems. Scientific Reports, 2019, 9, 14357.	3.3	22
20	Peripheral nerve transfers change target muscle structure and function. Science Advances, 2019, 5, eaau2956.	10.3	46
21	SpillOver stimulation: A novel hypertrophy model using co-contraction of the plantar-flexors to load the tibial anterior muscle in rats. PLoS ONE, 2018, 13, e0207886.	2.5	12
22	Introduction of a new repair technique in bony avulsion of the FDP tendon: A biomechanical study. Scientific Reports, 2018, 8, 9906.	3.3	4
23	In-situ measurements of tensile forces in the tibialis anterior tendon of the rat in concentric, isometric, and resisted co-contractions. Physiological Reports, 2017, 5, e13245.	1.7	5
24	Fascicular shifting: a novel technique to overcome large nerve defects. Journal of Neurosurgery: Spine, 2017, 27, 723-731.	1.7	4
25	A novel miniature in-line load-cell to measure in-situ tensile forces in the tibialis anterior tendon of rats. PLoS ONE, 2017, 12, e0185209.	2.5	2
26	Rotational Stability of Scaphoid Osteosyntheses: An In Vitro Comparison of Small Fragment Cannulated Screws to Novel Bone Screw Sets. PLoS ONE, 2016, 11, e0156080.	2.5	11
27	In vitro experimental investigation of the forces and torque acting on the scaphoid during light grasp. Journal of Orthopaedic Research, 2016, 34, 1734-1742.	2.3	4
28	Skeletal muscle ATP synthesis and cellular H ⁺ handling measured by localized 31P-MRS during exercise and recovery. Scientific Reports, 2016, 6, 32037.	3.3	33
29	A finite element analysis of two novel screw designs for scaphoid waist fractures. Medical Engineering and Physics, 2016, 38, 131-139.	1.7	20
30	In Vitro Testing of an Implantable Wireless Telemetry System for Long-Term Electromyography Recordings in Large Animals. Artificial Organs, 2015, 39, 897-902.	1.9	4
31	Graft Remodeling following Transcrestal Sinus Floor Elevation via the Gel-Pressure Technique (GPT) and Pasteous Nano-Crystalline Hydroxyapatite Bone Substitute. Materials, 2015, 8, 3210-3220.	2.9	1
32	Same Same but Different. Different Trigeminal Chemoreceptors Share the Same Central Pathway. PLoS ONE, 2015, 10, e0121091.	2.5	29
33	Localized semi-LASER dynamic 31P magnetic resonance spectroscopy of the soleus during and following exercise at 7AT. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 493-501.	2.0	23
34	Drilling- and Withdrawing-Related Thermal Changes during Implant Site Osteotomies. Clinical Implant Dentistry and Related Research, 2015, 17, 32-43.	3.7	22
35	A novel standardized bone model for thermal evaluation of bone osteotomies with various irrigation methods. Clinical Oral Implants Research, 2014, 25, 622-631.	4.5	38
36	Thermal effects of a combined irrigation method during implant site drilling. A standardized <i>in vitro</i> study using a bovine rib model. Clinical Oral Implants Research, 2014, 25, 665-674.	4.5	59