

Christian Rotsch

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

149
citations

1478505

6
h-index

1281871

11
g-index

19
all docs

19
docs citations

19
times ranked

185
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalization of screw implants with superelastic structured Nitinol anchoring elements. BioMedical Engineering OnLine, 2022, 21, 3.	2.7	1
2	Investigation into the Hybrid Production of a Superelastic Shape Memory Alloy with Additively Manufactured Structures for Medical Implants. Materials, 2021, 14, 3098.	2.9	5
3	Experimental validation of adaptive pedicle screws—a novel implant concept using shape memory alloys. Medical and Biological Engineering and Computing, 2020, 58, 55-65.	2.8	9
4	A cadaver-based biomechanical model of acetabulum reaming for surgical virtual reality training simulators. Scientific Reports, 2020, 10, 14545.	3.3	6
5	Biological Cell Investigation of Structured Nitinol Surfaces for the Functionalization of Implants. Materials, 2020, 13, 3264.	2.9	7
6	Feasibility of implants with superelastic behaviour for midface reconstruction. Journal of Biomaterials Applications, 2020, 34, 1449-1457.	2.4	2
7	Comparison of Resistive and Optical Strain Measurement for Early Fracture Detection. Current Directions in Biomedical Engineering, 2020, 6, 196-199.	0.4	1
8	Development and Validation of Bone Models using Structural Dynamic Measurement Methods. Current Directions in Biomedical Engineering, 2019, 5, 343-345.	0.4	4
9	Integrating Tactile Feedback in an Acetabular Reamer for Surgical VR-Training. , 2019, , .		6
10	Early Virtual Reality User Experience and Usability Assessment of a Surgical Shape Memory Alloy Aspiration/Irrigation Instrument. , 2019, , .		2
11	A technical concept of a computer game for patients with Parkinson's disease — a new form of PC-based physiotherapy. International Journal of Neuroscience, 2019, 129, 770-775.	1.6	7
12	Structural Integration of Sensors/Actuators by Laser Beam Melting for Tailored Smart Components. Jom, 2018, 70, 321-327.	1.9	13
13	Novel concept of a modular hip implant could contribute to less implant failure in THA: a hypothesis. Patient Safety in Surgery, 2018, 12, 1.	2.3	8
14	Concept of patient-specific shape memory implants for the treatment of orbital floor fractures. Oral and Maxillofacial Surgery, 2017, 21, 179-185.	1.3	7
15	Session 18. Organ and patient support systems I. Biomedizinische Technik, 2017, 62, .	0.8	2
16	Biocompatibility and Inflammatory Potential of Titanium Alloys Cultivated with Human Osteoblasts, Fibroblasts and Macrophages. Materials, 2017, 10, 52.	2.9	48
17	Development of Patient-specific Orbital Floor Implants Made of Shape Memory Alloys. Procedia CIRP, 2016, 49, 143-146.	1.9	5
18	ConText: Contactless Sensors For Body Monitoring Incorporated In Textiles. , 2007, , .		14