Fernando Blaya Haro

List of Publications by Year
in descending order

39 papers	341 citations	1039880 9 h-index	887953 17 g-index
40 all docs	40 docs citations	40 times ranked	384 citing authors

#	Article	IF	Citations
1	3D printed floating photocatalysts for wastewater treatment. Catalysis Today, 2019, 328, 157-163.	2.2	79
2	Design of an Orthopedic Product by Using Additive Manufacturing Technology: The Arm Splint. Journal of Medical Systems, 2018, 42, 54.	2.2	63
3	Multi-criteria selection of structural adhesives to bond ABS parts obtained by rapid prototyping. International Journal of Adhesion and Adhesives, 2012, 33, 67-74.	1.4	34
4	Filament Advance Detection Sensor for Fused Deposition Modelling 3D Printers. Sensors, 2018, 18, 1495.	2.1	21
5	3D Digitization and Prototyping of the Skull for Practical Use in the Teaching of Human Anatomy. Journal of Medical Systems, 2017, 41, 83.	2.2	16
6	Experimental Comparison on Dental BioTribological Pairs Zirconia/Zirconia and Zirconia/Natural Tooth by Using a Reciprocating Tribometer. Journal of Medical Systems, 2019, 43, 97.	2.2	15
7	Plate auto-level system for fused deposition modelling (FDM) 3D printers. Rapid Prototyping Journal, 2017, 23, 401-413.	1.6	13
8	Design of a Functional Splint for Rehabilitation of Achilles Tendon Injury Using Advanced Manufacturing (AM) Techniques. Implementation Study. Journal of Medical Systems, 2019, 43, 122.	2.2	12
9	Monitoring an Analysis of Perturbations in Fusion Deposition Modelling (FDM) Processes for the Use of Biomaterials. Journal of Medical Systems, 2019, 43, 109.	2.2	10
10	Analysis and Fem Simulation Methodology of Dynamic Behavior of Human Rotator Cuff in Repetitive Routines: Musician Case Study. Journal of Medical Systems, 2018, 42, 55.	2.2	9
11	Methodology for the study of the influence of e-scooter vibrations on human health and comfort. , 2019, , .		9
12	Behavior under Load of A Human Shoulder: Finite Element Simulation and Analysis. Journal of Medical Systems, 2019, 43, 132.	2.2	8
13	Design and prototyping by additive manufacturing of a functional splint for rehabilitation of Achilles tendon intrasubstance rupture. , 2018, , .		6
14	A study evaluating the level of satisfaction of the students of health sciences about the use of 3D printed bone models. , 2018, , .		5
15	Oral appliance for Obstructive Sleep Apnea: Prototyping and Optimization of the Mandibular Protrusion Device. Journal of Medical Systems, 2019, 43, 107.	2.2	5
16	Novel Technique Based on Fused Filament Fabrication (FFF) and Robocasting to Create Composite Medical Parts. Journal of Medical Systems, 2019, 43, 120.	2.2	5
17	Development of a Smart Splint to Monitor Different Parameters during the Treatment Process. Sensors, 2020, 20, 4207.	2.1	5
18	Geometric Model for the Postural Characterization in the Sagital Plane of Lumbar Raquis. Journal of Medical Systems, 2019, 43, 130.	2.2	4

#	Article	IF	Citations
19	Real time analysis of the filament for FDM 3D printers. , 2019, , .		4
20	Composite material created by additive manufacturing techniques FFF and Robocasting for the manufacture of medical parts. , 2018, , .		3
21	Monitoring of the additive manufacturing process for the use of biomaterials in medical field. , 2018, , .		3
22	Processing and additive manufacturing of bones for the teaching of human anatomy. , 2016, , .		2
23	Systems of digitalization and processing of anatomical pieces for their three-dimensional reconstruction. , 2017, , .		2
24	Finite Element Simulation and Analysis of the behavior under load of a human shoulder. , 2018, , .		1
25	Study, Design and Prototyping of Oral Appliances to Treat Obstructive Sleep Apnea. , 2018, , .		1
26	Efficient Upper Limb Position Estimation Based on Angular Displacement Sensors for Wearable Devices. Sensors, 2020, 20, 6452.	2.1	1
27	Development of a Smart Leg Splint by Using New Sensor Technologies and New Therapy Possibilities. Sensors, 2021, 21, 5252.	2.1	1
28	PERFORMING A NEW TEACHING TREND BASED ON "LEARNING BY DOING" BY MIXING DIFFERENT FIELDS OF KNOWLEDGE AS ART AND SCIENCE. , 2017, , .		1
29	Biomechanical normality model of the Human lumbar spine (Lumbosacral region). , 2019, , .		1
30	Finite Element model of an elbow under load, muscle effort analysis when modeled using 1D rod element. , 2020, , .		1
31	THREE-DIMENSIONAL IMPRESSION TECHNOLOGY APPLICATIONS IN MEDICAL TRAINING. INTED Proceedings, 2016, , .	0.0	0
32	DESIGNING OF BONE MATERIAL WITH THREE-DIMENSIONAL PRINTERS: A SUPPORT TO STUDY ANATOMY IN HEALTH SCIENCES. EXAMPLE WITH JAW MODELS. EDULEARN Proceedings, 2016, , .	0.0	0
33	FAST SCANNING TECHNOLOGY AND 3D PROTOTYPE OF BONES FOR TEACHING PURPOSE. INTED Proceedings, 2017, , .	0.0	0
34	Design and prototype of a control for virtual environment in CHD examination. , 2019, , .		0
35	1D Finite Element model using rod element applied to muscle behavior simulation. , 2019, , .		0
36	Analysis of the anisotropy in parts for medical applications created by the superposition of layers of PLA and epoxy resin with the FFF & Robocasting techniques. , 2019, , .		0

#	Article	IF	Citations
37	Smart splint for diagnosis during initial stage of treatment. , 2020, , .		0
38	Ergonomics in surgical environments. , 2020, , .		0
39	Mechanical Model and FEM Simulations for Efforts on Biceps and Triceps Muscles under Vertical Load: Mathematical Formulation of Results. Mathematics, 2022, 10, 2441.	1.1	0