

# Ata Hashemi

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

349  
citations

1040056

9  
h-index

839539

18  
g-index

26  
all docs

26  
docs citations

26  
times ranked

496  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pullout strength of pedicle screws augmented with particulate calcium phosphate: An experimental study. <i>Spine Journal</i> , 2009, 9, 404-410.	1.3	74
2	Mechanical, material, and biological study of a PCL/bioactive glass bone scaffold: Importance of viscoelasticity. <i>Materials Science and Engineering C</i> , 2018, 90, 280-288.	7.3	54
3	Dynamic tensile properties of bovine periodontal ligament: A nonlinear viscoelastic model. <i>Journal of Biomechanics</i> , 2016, 49, 756-764.	2.1	40
4	Biomechanical behavior of bovine periodontal ligament: Experimental tests and constitutive model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 599-606.	3.1	30
5	The effect of 3D printing on the morphological and mechanical properties of polycaprolactone filament and scaffold. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1038-1046.	3.2	28
6	Influence of Poly(acrylic acid) on the Mechanical Properties of Composite Hydrogels. <i>Advances in Polymer Technology</i> , 2015, 34, .	1.7	22
7	Finite element investigation of human maxillary incisor under traumatic loading: Static vs dynamic analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 155, 121-125.	4.7	15
8	Dynamic viscoelastic behavior of bovine periodontal ligament in compression. <i>Journal of Periodontal Research</i> , 2020, 55, 651-659.	2.7	15
9	Effect of Thermal Stresses on the Mechanism of Tooth Pain. <i>Journal of Endodontics</i> , 2014, 40, 1835-1839.	3.1	14
10	Homogenized finite element models can accurately predict screw pull-out in continuum materials, but not in porous materials. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 202, 105966.	4.7	11
11	Fabrications of small diameter compliance bypass conduit using electrospinning of clinical grade polyurethane. <i>Vascular</i> , 2019, 27, 636-647.	0.9	8
12	Thermal Analysis of Dental Implants in Mandibular Premolar Region: 3D FEM Study. <i>Journal of Prosthodontics</i> , 2018, 27, 284-289.	3.7	6
13	Effect of geometric dimensions and material models of the periodontal ligament in orthodontic tooth movement. <i>Orthodontics and Craniofacial Research</i> , 2020, 23, 404-412.	2.8	6
14	Do mechanical properties of human fetal membrane depend on strain rate?. <i>Journal of Obstetrics and Gynaecology Research</i> , 2015, 41, 84-91.	1.3	5
15	A comparison of the material properties of natural and synthetic vascular walls. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 71, 209-215.	3.1	4
16	New Biomechanical Approach for Evaluation of Spinal Pedicle Screw Fixation Stability. <i>Journal of Medical and Biological Engineering</i> , 2021, 41, 447-455.	1.8	4
17	A novel haemostatic powder delivery device applicable in minimally invasive surgery. <i>Journal of Medical Engineering and Technology</i> , 2014, 38, 32-36.	1.4	2
18	A tensile machine with a novel optical load cell for soft biological tissues application. <i>Journal of Medical Engineering and Technology</i> , 2014, 38, 411-415.	1.4	2

#	ARTICLE	IF	CITATIONS
19	A Viscoelastic Study of Poly( $\epsilon$ -Caprolactone) Microsphere Sintered Bone Tissue Engineering Scaffold. Journal of Medical and Biological Engineering, 2018, 38, 359-369.	1.8	2
20	DOES PEEK DENTAL IMPLANT HAVE THERMAL ADVANTAGE OVER ZIRCONIA OR TITANIUM IMPLANTS?. Journal of Mechanics in Medicine and Biology, 2020, 20, 2050005.	0.7	2
21	Mechanical guidelines on the properties of human healthy arteries in the design and fabrication of vascular grafts: experimental tests and quasi-linear viscoelastic model. Acta of Bioengineering and Biomechanics, 2019, 21, 13-21.	0.4	2
22	EFFECT OF ANTIBIOTICS AUGMENTATION AND STORAGE CONDITION ON IMPACT RESISTANCE OF ORTHOPEDIC BONE CEMENT. Journal of Mechanics in Medicine and Biology, 2017, 17, 1750019.	0.7	1
23	Influence of crack length and anatomical location on the fracture toughness of annulus fibrosus. Medical Engineering and Physics, 2021, 88, 1-8.	1.7	1
24	Effect of hinge length on the lateral cortex fracture in high tibia osteotomy: an XFEM study. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-9.	1.6	1
25	Does preconditioning lower the rupture resistance of chorioamniotic membrane?. Biomedizinische Technik, 2020, 65, 643-652.	0.8	0
26	Design and Fabrication of a Drop Tower Testing Apparatus to Investigate the Impact Behavior of Spinal Motion Segments. Archives of Bone and Joint Surgery, 2020, 8, 682-688.	0.2	0