

# Behzad Babaei

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

532  
citations

759233

12  
h-index

752698

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

540  
citing authors

#	ARTICLE	IF	CITATIONS
1	Free vibration analysis of an electro-elastic GPLRC cylindrical shell surrounded by viscoelastic foundation using modified length-couple stress parameter. <i>Mechanics Based Design of Structures and Machines</i> , 2021, 49, 738-762.	4.7	101
2	Efficient and optimized identification of generalized Maxwell viscoelastic relaxation spectra. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 55, 32-41.	3.1	62
3	Role of Mg <sub>2</sub> Si particles on mechanical, wear, and corrosion behaviors of friction stir welding of AA6061-T6 and Al-Mg <sub>2</sub> Si composite. <i>Journal of Composite Materials</i> , 2020, 54, 4035-4057.	2.4	50
4	Microstructural properties and mechanics vary between bundles of the human anterior cruciate ligament during stress-relaxation. <i>Journal of Biomechanics</i> , 2016, 49, 87-93.	2.1	36
5	Remodeling by fibroblasts alters the rate-dependent mechanical properties of collagen. <i>Acta Biomaterialia</i> , 2016, 37, 28-37.	8.3	35
6	FWNNNet: Presentation of a New Classifier of Brain Tumor Diagnosis Based on Fuzzy Logic and the Wavelet-Based Neural Network Using Machine-Learning Methods. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-13.	1.7	32
7	A discrete spectral analysis for determining quasi-linear viscoelastic properties of biological materials. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150707.	3.4	29
8	Friction spot extrusion welding-brazing of copper to aluminum alloy. <i>Materials Letters</i> , 2021, 285, 129160.	2.6	26
9	The ballistic resistance of multi-layered targets impacted by rigid projectiles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 208-217.	5.6	23
10	Discrete quasi-linear viscoelastic damping analysis of connective tissues, and the biomechanics of stretching. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 193-202.	3.1	23
11	Magnetic Resonance Elastography Reconstruction for Anisotropic Tissues. <i>Medical Image Analysis</i> , 2021, 74, 102212.	11.6	22
12	Energy dissipation in quasi-linear viscoelastic tissues, cells, and extracellular matrix. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 84, 198-207.	3.1	15
13	The effect of dental restoration geometry and material properties on biomechanical behaviour of a treated molar tooth: A 3D finite element analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 125, 104892.	3.1	13
14	The fibrous cellular microenvironment, and how cells make sense of a tangled web. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5772-5774.	7.1	12
15	Characterization of the mechanical properties of resected porcine organ tissue using optical fiber photoelastic polarimetry. <i>Biomedical Optics Express</i> , 2017, 8, 4663.	2.9	11
16	Influence of thermal and thermomechanical stimuli on a molar tooth treated with resin-based restorative dental composites. <i>Dental Materials</i> , 2022, 38, 811-823.	3.5	10
17	The role of stirring time on the metallurgical and mechanical properties during modified friction stir clinching of AA6061-T6 and AA7075-T6 sheets. <i>Results in Physics</i> , 2020, 19, 103364.	4.1	9
18	Effect of Nd:YAG Pulsed-Laser Welding Parameters on Melting Rate of GTD-111 Superalloy Joint. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 9108-9117.	2.5	9

#	ARTICLE	IF	CITATIONS
19	A multi-objective optimization of stent geometries. Journal of Biomechanics, 2021, 125, 110575.	2.1	8
20	The influence of dental restoration depth, internal cavity angle, and material properties on biomechanical resistance of a treated molar tooth. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 133, 105305.	3.1	6
21	Fracture Behavior of GTD-111 Superalloy during In Situ Tensile Scanning Electron Microscopy. Journal of Materials Engineering and Performance, 0, , .	2.5	0