Sarah A Bentil

List of Publications by Year
in descending order

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20 papers	214 citations	1162367 8 h-index	1058022 14 g-index
20 all docs	20 docs citations	20 times ranked	321 citing authors

#	Article	IF	Citations
1	Inherent Interfacial Mechanical Gradients in 3D Hydrogels Influence Tumor Cell Behaviors. PLoS ONE, 2012, 7, e35852.	1.1	56
2	Beyond Linear Elastic Modulus: Viscoelastic Models for Brain and Brain Mimetic Hydrogels. ACS Biomaterials Science and Engineering, 2019, 5, 3964-3973.	2.6	19
3	Exploring the mechanical behavior of degrading swine neural tissue at low strain rates via the fractional Zener constitutive model. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 30, 83-90.	1.5	15
4	A Dynamic Inflation Test for Soft Materials. Experimental Mechanics, 2016, 56, 759-769.	1.1	14
5	Simulations of hydrogel-coated neural microelectrodes to assess biocompatibility improvement using strain as a metric for micromotion. Biomedical Physics and Engineering Express, 2018, 4, 035036.	0.6	12
6	The mechanical behavior of brain surrogates manufactured from silicone elastomers. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 95, 180-190.	1.5	12
7	Brain gyrification in wild and domestic canids: Has domestication changed the gyrification index in domestic dogs?. Journal of Comparative Neurology, 2020, 528, 3209-3228.	0.9	12
8	Viscoelastic Properties of Inert Solid Rocket Propellants Exposed to a Shock Wave. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.0	10
9	Identification of Plasma Membrane Macro- and Microdomains from Wavelet Analysis of FRET Microscopy. Biophysical Journal, 2005, 88, 3625-3634.	0.2	9
10	Numerical Investigation of Auxetic Textured Soft Strain Gauge for Monitoring Animal Skin. Sensors, 2020, 20, 4185.	2.1	8
11	Cerebrospinal Fluid Cavitation as a Mechanism of Blast-Induced Traumatic Brain Injury: A Review of Current Debates, Methods, and Findings. Frontiers in Neurology, 2021, 12, 626393.	1.1	8
12	Surface Textures for Stretchable Capacitive Strain Sensors. Smart Materials and Structures, 2020, 29, 105037.	1.8	8
13	Viscoelastic properties of shock wave exposed brain tissue subjected to unconfined compression experiments. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 100, 103380.	1.5	6
14	Gellan gum-gelatin viscoelastic hydrogels as scaffolds to promote fibroblast differentiation. Materials Science and Engineering C, 2021, 129, 112370.	3.8	6
15	Pressure-Induced Vector Transport in Human Saphenous Vein. Annals of Biomedical Engineering, 2005, 33, 202-208.	1.3	5
16	Influence of saline solution absorption and compressive rate on the material properties of brain tissue. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 97, 355-364.	1.5	4
17	Deformation of an airfoil-shaped brain surrogate under shock wave loading. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 120, 104513.	1.5	4
18	Soft Elastomeric Capacitor for Strain and Stress Monitoring on Sutured Skin Tissues. ACS Sensors, 2021, 6, 3706-3714.	4.0	4

#	Article	IF	Citations
19	Numerical and Experimental Investigation of an Ultrasoft Elastomer Under Shock Wave Loading. Journal of Dynamic Behavior of Materials, 0, , 1.	1.1	2
20	Viscoelastic Properties of Macaque Neural Tissue at Low Strain Rates. , 2010, , .		0