Emrah Demirci

List of Publications by Year
in descending order

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30	614	759233 12	610901 24
papers	citations	h-index	g-index

30	30	30	528
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Variability and anisotropy of mechanical behavior of cortical bone in tension and compression. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 21, 109-120.	3.1	151
2	Computation of mechanical anisotropy in thermally bonded bicomponent fibre nonwovens. Computational Materials Science, 2012, 52, 157-163.	3.0	55
3	Finite element modelling of thermally bonded bicomponent fibre nonwovens: Tensile behaviour. Computational Materials Science, 2011, 50, 1286-1291.	3.0	49
4	Fracture process in cortical bone: X-FEM analysis of microstructured models. International Journal of Fracture, 2013, 184, 43-55.	2.2	47
5	Numerical analysis of progressive damage in nonwoven fibrous networks under tension. International Journal of Solids and Structures, 2014, 51, 1670-1685.	2.7	45
6	Penetration of cutting tool into cortical bone: Experimental and numerical investigation of anisotropic mechanical behaviour. Journal of Biomechanics, 2014, 47, 1117-1126.	2.1	40
7	Meso-scale deformation and damage in thermally bonded nonwovens. Journal of Materials Science, 2013, 48, 2334-2345.	3.7	30
8	Numerical modelling of damage initiation in low-density thermally bonded nonwovens. Computational Materials Science, 2012, 64, 112-115.	3.0	28
9	Mechanical analysis of bi-component-fibre nonwovens: Finite-element strategy. Composites Part B: Engineering, 2015, 68, 327-335.	12.0	28
10	Mechanical behaviour of nonwovens: Analysis of effect of manufacturing parameters with parametric computational model. Computational Materials Science, 2014, 94, 8-16.	3.0	20
11	Characterisation and numerical modelling of complex deformation behaviour in thermally bonded nonwovens. Computational Materials Science, 2013, 71, 165-171.	3.0	18
12	Deformation and damage of random fibrous networks. International Journal of Solids and Structures, 2020, 184, 233-247.	2.7	17
13	Nonwovens modelling: a review of finite-element strategies. Journal of the Textile Institute, 2016, 107, 225-232.	1.9	12
14	Anisotropic cytocompatible electrospun scaffold for tendon tissue engineering elicits limited inflammatory response in vitro. Journal of Biomaterials Applications, 2018, 33, 127-139.	2.4	11
15	Dynamic Response of Thermally Bonded Bicomponent Fibre Nonwovens. Applied Mechanics and Materials, 0, 70, 405-409.	0.2	9
16	Strength of fibres in low-density thermally bonded nonwovens: An experimental investigation. Journal of Physics: Conference Series, 2012, 382, 012018.	0.4	9
17	Large deformation of thermally bonded random fibrous networks: microstructural changes and damage. Journal of Materials Science, 2014, 49, 4081-4092.	3.7	8
18	Analysis of rate-dependent tensile properties of polypropylene fibres used in thermally bonded nonwovens. Journal of the Textile Institute, 2013, 104, 965-971.	1.9	7

#	Article	IF	Citations
19	Effect of morphological state of graphene on mechanical properties of nanocomposites. Journal of Materials Science, 2016, 51, 4037-4046.	3.7	6
20	Anisotropic Elastic-Plastic Mechanical Properties of Thermally Bonded Bicomponent Fibre Nonwovens. , 2010, , .		5
21	Numerical Modelling of Thermally Bonded Nonwovens: Continuous and Discontinuous Approaches. Solid State Phenomena, 2012, 188, 164-169.	0.3	5
22	Cellular Response to Cyclic Compression of Tissue Engineered Intervertebral Disk Constructs Composed of Electrospun Polycaprolactone. Journal of Biomechanical Engineering, 2018, 140, .	1.3	5
23	Effect of microstructure on porosity of random fibrous networks. Journal of the Textile Institute, 2020, 111, 1713-1723.	1.9	3
24	Algorithm to determine orientation distribution function from microscopic images of fibrous networks: Validation with X-ray microtomography. Micron, 2022, 160, 103321.	2.2	2
25	Analysis of Deformation Characteristics of Cortical Bone Tissue. Solid State Phenomena, 2012, 188, 118-123.	0.3	1
26	Electrospun polycaprolactone nano-fibers support growth of human mesenchymal stem cells. , 2013, , .		1
27	Deformation and Damage of Thermally Bonded Nonwoven Networks. Engineering Materials, 2015, , 181-199.	0.6	1
28	Notches in fibrous materials: micro-mechanisms of deformation and damage. Procedia Structural Integrity, 2017, 6, 168-173.	0.8	1
29	Fracture of Cortical Bone Tissue. Advanced Structured Materials, 2015, , 143-170.	0.5	0
30	Experimental and Numerical Methods to Analyse Deformation and Damage in Random Fibrous Networks. Advanced Structured Materials, 2020, , 151-174.	0.5	0