

Emrah Demirci

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10482680/publications.pdf>

Version: 2024-02-01

30
papers

614
citations

759233

12
h-index

610901

24
g-index

30
all docs

30
docs citations

30
times ranked

528
citing authors

#	ARTICLE	IF	CITATIONS
1	Algorithm to determine orientation distribution function from microscopic images of fibrous networks: Validation with X-ray microtomography. <i>Micron</i> , 2022, 160, 103321.	2.2	2
2	Deformation and damage of random fibrous networks. <i>International Journal of Solids and Structures</i> , 2020, 184, 233-247.	2.7	17
3	Effect of microstructure on porosity of random fibrous networks. <i>Journal of the Textile Institute</i> , 2020, 111, 1713-1723.	1.9	3
4	Experimental and Numerical Methods to Analyse Deformation and Damage in Random Fibrous Networks. <i>Advanced Structured Materials</i> , 2020, , 151-174.	0.5	0
5	Cellular Response to Cyclic Compression of Tissue Engineered Intervertebral Disk Constructs Composed of Electrospun Polycaprolactone. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	5
6	Anisotropic cytocompatible electrospun scaffold for tendon tissue engineering elicits limited inflammatory response in vitro. <i>Journal of Biomaterials Applications</i> , 2018, 33, 127-139.	2.4	11
7	Notches in fibrous materials: micro-mechanisms of deformation and damage. <i>Procedia Structural Integrity</i> , 2017, 6, 168-173.	0.8	1
8	Effect of morphological state of graphene on mechanical properties of nanocomposites. <i>Journal of Materials Science</i> , 2016, 51, 4037-4046.	3.7	6
9	Nonwovens modelling: a review of finite-element strategies. <i>Journal of the Textile Institute</i> , 2016, 107, 225-232.	1.9	12
10	Deformation and Damage of Thermally Bonded Nonwoven Networks. <i>Engineering Materials</i> , 2015, , 181-199.	0.6	1
11	Mechanical analysis of bi-component-fibre nonwovens: Finite-element strategy. <i>Composites Part B: Engineering</i> , 2015, 68, 327-335.	12.0	28
12	Fracture of Cortical Bone Tissue. <i>Advanced Structured Materials</i> , 2015, , 143-170.	0.5	0
13	Penetration of cutting tool into cortical bone: Experimental and numerical investigation of anisotropic mechanical behaviour. <i>Journal of Biomechanics</i> , 2014, 47, 1117-1126.	2.1	40
14	Mechanical behaviour of nonwovens: Analysis of effect of manufacturing parameters with parametric computational model. <i>Computational Materials Science</i> , 2014, 94, 8-16.	3.0	20
15	Large deformation of thermally bonded random fibrous networks: microstructural changes and damage. <i>Journal of Materials Science</i> , 2014, 49, 4081-4092.	3.7	8
16	Numerical analysis of progressive damage in nonwoven fibrous networks under tension. <i>International Journal of Solids and Structures</i> , 2014, 51, 1670-1685.	2.7	45
17	Analysis of rate-dependent tensile properties of polypropylene fibres used in thermally bonded nonwovens. <i>Journal of the Textile Institute</i> , 2013, 104, 965-971.	1.9	7
18	Meso-scale deformation and damage in thermally bonded nonwovens. <i>Journal of Materials Science</i> , 2013, 48, 2334-2345.	3.7	30

#	ARTICLE	IF	CITATIONS
19	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
20	Characterisation and numerical modelling of complex deformation behaviour in thermally bonded nonwovens. Computational Materials Science, 2013, 71, 165-171.	3.0	18
21	Fracture process in cortical bone: X-FEM analysis of microstructured models. International Journal of Fracture, 2013, 184, 43-55.	2.2	47
22	Electrospun polycaprolactone nano-fibers support growth of human mesenchymal stem cells. , 2013, , .		1
23	Analysis of Deformation Characteristics of Cortical Bone Tissue. Solid State Phenomena, 2012, 188, 118-123.	0.3	1
24	Numerical Modelling of Thermally Bonded Nonwovens: Continuous and Discontinuous Approaches. Solid State Phenomena, 2012, 188, 164-169.	0.3	5
25	Strength of fibres in low-density thermally bonded nonwovens: An experimental investigation. Journal of Physics: Conference Series, 2012, 382, 012018.	0.4	9
26	Computation of mechanical anisotropy in thermally bonded bicomponent fibre nonwovens. Computational Materials Science, 2012, 52, 157-163.	3.0	55
27	Numerical modelling of damage initiation in low-density thermally bonded nonwovens. Computational Materials Science, 2012, 64, 112-115.	3.0	28
28	Finite element modelling of thermally bonded bicomponent fibre nonwovens: Tensile behaviour. Computational Materials Science, 2011, 50, 1286-1291.	3.0	49
29	Anisotropic Elastic-Plastic Mechanical Properties of Thermally Bonded Bicomponent Fibre Nonwovens. , 2010, , .		5
30	Dynamic Response of Thermally Bonded Bicomponent Fibre Nonwovens. Applied Mechanics and Materials, 0, 70, 405-409.	0.2	9