

Marek Lefik

List of Publications by Year in descending order

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18
papers

570
citations

759233

12
h-index

839539

18
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18
all docs

18
docs citations

18
times ranked

381
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial neural network as an incremental non-linear constitutive model for a finite element code. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 3265-3283.	6.6	128
2	Artificial Neural Networks in numerical modelling of composites. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 1785-1804.	6.6	95
3	A multilevel homogenised model for superconducting strand thermomechanics. Cryogenics, 2005, 45, 259-271.	1.7	62
4	ANN approach to sorption hysteresis within a coupled hygro-thermo-mechanical FE analysis. International Journal for Numerical Methods in Engineering, 2001, 50, 299-323.	2.8	43
5	Artificial neural network for parameter identifications for an elasto-plastic model of superconducting cable under cyclic loading. Computers and Structures, 2002, 80, 1699-1713.	4.4	42
6	Homogenisation methods for the thermo-mechanical analysis of Nb ₃ Sn strand. Cryogenics, 2006, 46, 569-580.	1.7	38
7	Multiscale analysis of the influence of the triplet helicoidal geometry on the strain state of a Nb ₃ Sn based strand for ITER coils. Cryogenics, 2005, 45, 589-605.	1.7	26
8	Application of the homogenisation method to the analysis of superconducting coils. Fusion Engineering and Design, 1994, 24, 231-255.	1.9	22
9	Thermal and Bending Strain on Nb_3Sn Strands. IEEE Transactions on Applied Superconductivity, 2006, 16, 1823-1827.	1.7	21
10	THELMA Code Analysis of Bronze Route Nb_3Sn Strand Bending Effect on I_{c} . IEEE Transactions on Applied Superconductivity, 2006, 16, 860-863.	1.7	20
11	3-D finite element analysis of composite beams with parallel fibres, based on homogenization theory. Computational Mechanics, 1994, 14, 2-15.	4.0	19
12	FE modelling of a boundary layer corrector for composites using the homogenization theory. Engineering Computations, 1996, 13, 31-42.	1.4	15
13	One-dimensional model of cable-in-conduit superconductors under cyclic loading using artificial neural networks. Fusion Engineering and Design, 2002, 60, 105-117.	1.9	12
14	Analysis of Bending Effects on Performance Degradation of ITER-Relevant Nb_3Sn Strand Using the THELMA Code. IEEE Transactions on Applied Superconductivity, 2008, 18, 1067-1071.	1.7	11
15	Thermo-Mechanics of the Hierarchical Structure of ITER Superconducting Cables. IEEE Transactions on Applied Superconductivity, 2007, 17, 1362-1365.	1.7	8
16	A thermo-mechanical model for Nb ₃ Sn filaments and wires: strain field for different strand layouts. Superconductor Science and Technology, 2009, 22, 125012.	3.5	6
17	Main properties of sands hydrophobized by alkoxy silane emulsions. Acta Geophysica, 2014, 62, 1192-1201.	2.0	1
18	Two Scales, Hybrid Model for Soils, Involving Artificial Neural Network and Finite Element Procedure. Studia Geotechnica Et Mechanica, 2015, 36, 29-36.	0.5	1