

Marek Lefik

List of Publications by Year in descending order

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18
papers

570
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759233

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citing authors

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