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List of Publications by Year in descending order

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42
papers

818
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516215

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42
all docs

42
docs citations

42
times ranked

481
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical and numerical aspects of the volumetric approach for fatigue life prediction in notched components. <i>International Journal of Fatigue</i> , 2003, 25, 67-76.	2.8	63
2	A numerical study for linear isotropic Cosserat elasticity with conformally invariant curvature. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2009, 89, 552-569.	0.9	63
3	Advanced volumetric method for fatigue life prediction using stress gradient effects at notch roots. <i>Computational Materials Science</i> , 2007, 39, 649-663.	1.4	60
4	Structural integrity evaluation of X52 gas pipes subjected to external corrosion defects using the SINTAP procedure. <i>International Journal of Pressure Vessels and Piping</i> , 2006, 83, 420-432.	1.2	59
5	Evaluation of the effect of corrosion defects on the structural integrity of X52 gas pipelines using the SINTAP procedure and notch theory. <i>International Journal of Pressure Vessels and Piping</i> , 2007, 84, 123-131.	1.2	47
6	Fatigue life duration prediction for welded spots by volumetric method. <i>International Journal of Fatigue</i> , 2004, 26, 81-94.	2.8	45
7	Subgrid interaction and micro-randomness â€“ Novel invariance requirements in infinitesimal gradient elasticity. <i>International Journal of Solids and Structures</i> , 2009, 46, 4261-4276.	1.3	45
8	Mean field modeling of isotropic random Cauchy elasticity versus microstretch elasticity. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2009, 60, 479-497.	0.7	29
9	Analytical and numerical studies on Penalized Micro-Dilatation (PMD) theory: Macro-micro link concept. <i>European Journal of Mechanics, A/Solids</i> , 2012, 34, 130-148.	2.1	29
10	Size effect method application for modeling of human cancellous bone using geometrically exact Cosserat elasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 237-240, 227-243.	3.4	27
11	Proposal of new damage model for thermal shock based on dynamic fracture on the brittle materials. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2065-2075.	1.5	24
12	Modeling of the induced chemo-mechanical stress through porous cement mortar subjected to CO ₂ : Enhanced micro-dilatation theory and 14C-PMMA method. <i>Computational Materials Science</i> , 2013, 69, 466-480.	1.4	23
13	A new multi-scale modeling approach based on hygro-Cosserat theory for self-induced stress in hydrating cementitious mortars. <i>Computational Materials Science</i> , 2011, 50, 2063-2074.	1.4	18
14	Environmentally motivated modeling of hygro-thermally induced stresses in the layered limestone masonry structures: Physical motivation and numerical modeling. <i>Acta Mechanica</i> , 2011, 220, 107-137.	1.1	17
15	Linear Cosserat Elasticity, Conformal Curvature and Bounded Stiffness. <i>Advances in Mechanics and Mathematics</i> , 2010, , 55-63.	0.2	17
16	Enhanced numerical study of infinitesimal non-linear Cosserat theory based on the grain size length scale assumption. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 2892-2902.	3.4	16
17	On the filtrate drilling fluid formation and near well-bore damage along the petroleum well. <i>Journal of Petroleum Science and Engineering</i> , 2015, 135, 299-313.	2.1	16
18	Ultrafast scalable parallel algorithm for the radial distribution function histogramming using MPI maps. <i>Journal of Supercomputing</i> , 2017, 73, 1629-1653.	2.4	16

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19	Three-Dimensional Finite Element Analysis of Tensile-Shear Spot-Welded Joints in Tensile and Compressive Loading Conditions. <i>Strength of Materials</i> , 2004, 36, 353-364.	0.2	15
20	Role of cement paste composition on the self induced stress in early-age mortars: Application of the Cosserat size number. <i>Cement and Concrete Composites</i> , 2013, 39, 43-59.	4.6	15
21	Thermo-chemical heterogeneous hydration gradient modeling of concrete and aggregates size effect on ITZ. <i>Thermochemica Acta</i> , 2014, 590, 165-180.	1.2	15
22	Non-linear elastic micro-dilatation theory: Matrix exponential function paradigm. <i>International Journal of Solids and Structures</i> , 2015, 67-68, 1-26.	1.3	14
23	Reactive transport numerical modeling of mortar carbonation: Atmospheric and accelerated carbonation. <i>Journal of Building Engineering</i> , 2019, 23, 351-368.	1.6	14
24	Carbon dioxide adsorption through carbon adsorbent structures: Effect of the porosity size, chemical potential and temperature. <i>Computational Materials Science</i> , 2018, 151, 255-272.	1.4	13
25	Rheological properties for fresh cement paste from colloidal suspension to the three-element Kelvinâ€Voigt model. <i>Rheologica Acta</i> , 2020, 59, 47-61.	1.1	13
26	Chemo-physical modeling of cement mortar hydration: Role of aggregates. <i>Thermochemica Acta</i> , 2013, 564, 70-82.	1.2	12
27	Porous media modeling and micro-structurally motivated material moduli determination via the micro-dilatation theory. <i>European Physical Journal: Special Topics</i> , 2015, 224, 1805-1816.	1.2	12
28	Numerical simulation of elastic linear micropolar media based on the pore space length scale assumption. <i>Strength of Materials</i> , 2008, 40, 425-438.	0.2	11
29	On parallel simulation of a new linear Cosserat elasticity model with grid framework model assumptions. <i>Applied Mathematical Modelling</i> , 2011, 35, 4738-4758.	2.2	10
30	Why does the modified Arrheniusâ€™ law fail to describe the hydration modeling of recycled aggregate?. <i>Thermochemica Acta</i> , 2016, 626, 13-30.	1.2	9
31	Impact of adsorbent carbons and carbon surface conductivity on adsorption capacity of CO ₂ , CH ₄ , N ₂ and gas separation. <i>Computational Materials Science</i> , 2021, 199, 110572.	1.4	9
32	Porous-micro-dilatation theory for random crystallization: Monte Carlo simulation for delayed ettringite formation. <i>Acta Mechanica</i> , 2017, 228, 3223-3249.	1.1	6
33	Impact of high adsorbent conductivity on adsorption of polar molecules: simulation of phenol adsorption on graphene sheets. <i>Adsorption</i> , 2020, 26, 537-552.	1.4	6
34	Assessment of CO ₂ adsorption capacity in Wollastonite using atomistic simulation. <i>Journal of CO₂ Utilization</i> , 2021, 50, 101564.	3.3	6
35	Effect of specimen shape on the behavior of brittle materials using probabilistic and deterministic methods. <i>Journal of the European Ceramic Society</i> , 2006, 26, 3621-3629.	2.8	5
36	Application of volumetric method to the assessment of damage induced by action of foreign object on gas pipes. <i>Strength of Materials</i> , 2006, 38, 409-416.	0.2	4

#	ARTICLE	IF	CITATIONS
37	Influence of the Clay Content and Type of Algerian Sandstone Rock Samples on Water/Oil Relative Permeabilities. <i>Energy & Fuels</i> , 2019, 33, 9330-9341.	2.5	4
38	Tensile strength of the brittle materials, probabilistic or deterministic approach?. <i>Strength of Materials</i> , 2006, 38, 72-83.	0.2	3
39	On CO ₂ sequestration in concrete aggregate via carbonation: simulation and experimental verification. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 6076-6095.	1.0	3
40	Influence of force field used in carbon nanostructure reconstruction on simulated phenol adsorption isotherms in aqueous medium. <i>Journal of Molecular Liquids</i> , 2021, 344, 117548.	2.3	3
41	New Approach of Multi Scale Modeling Based on the Hygro-Cosserat Theory for Self Desiccation Deformation of Cement Mortars at Early Age. <i>Advanced Materials Research</i> , 2010, 123-125, 563-566.	0.3	2
42	Phase profiling of carbonated cement paste: Quantitative X-ray diffraction analysis and numerical modeling. <i>Case Studies in Construction Materials</i> , 2022, 16, e00890.	0.8	0