HamidrÃ©za RamÃ©zani

List of Publications by Year
in descending order

42 papers	818 citations	516215 16 h-index	525886 27 g-index
42 all docs	42 docs citations	42 times ranked	481 citing authors

#	Article	IF	Citations
1	On CO₂ sequestration in concrete aggregate via carbonation: simulation and experimental verification. European Journal of Environmental and Civil Engineering, 2022, 26, 6076-6095.	1.0	3
2	Phase profiling of carbonated cement paste: Quantitative X-ray diffraction analysis and numerical modeling. Case Studies in Construction Materials, 2022, 16, e00890.	0.8	0
3	Assessment of CO2 adsorption capacity in Wollastonite using atomistic simulation. Journal of CO2 Utilization, 2021, 50, 101564.	3.3	6
4	Influence of force field used in carbon nanostructure reconstruction on simulated phenol adsorption isotherms in aqueous medium. Journal of Molecular Liquids, 2021, 344, 117548.	2.3	3
5	Impact of adsorbent carbons and carbon surface conductivity on adsorption capacity of CO2, CH4, N2 and gas separation. Computational Materials Science, 2021, 199, 110572.	1.4	9
6	Rheological properties for fresh cement paste from colloidal suspension to the three-element Kelvinâ€“Voigt model. Rheologica Acta, 2020, 59, 47-61.	1.1	13
7	Impact of high adsorbent conductivity on adsorption of polar molecules: simulation of phenol adsorption on graphene sheets. Adsorption, 2020, 26, 537-552.	1.4	6
8	Influence of the Clay Content and Type of Algerian Sandstone Rock Samples on Waterâ€“Oil Relative Permeabilities. Energy & Fuels, 2019, 33, 9330-9341.	2.5	4
9	Reactive transport numerical modeling of mortar carbonation: Atmospheric and accelerated carbonation. Journal of Building Engineering, 2019, 23, 351-368.	1.6	14
10	Carbon dioxide adsorption through carbon adsorbent structures: Effect of the porosity size, chemical potential and temperature. Computational Materials Science, 2018, 151, 255-272.	1.4	13
11	Porous-micro-dilatation theory for random crystallization: Monte Carlo simulation for delayed ettringite formation. Acta Mechanica, 2017, 228, 3223-3249.	1.1	6
12	Ultrafast scalable parallel algorithm for the radial distribution function histogramming using MPI maps. Journal of Supercomputing, 2017, 73, 1629-1653.	2.4	16
13	Why does the modified Arrheniusâ€™ law fail to describe the hydration modeling of recycled aggregate?. Thermochimica Acta, 2016, 626, 13-30.	1.2	9
14	Non-linear elastic micro-dilatation theory: Matrix exponential function paradigm. International Journal of Solids and Structures, 2015, 67-68, 1-26.	1.3	14
15	Porous media modeling and micro-structurally motivated material moduli determination via the micro-dilatation theory. European Physical Journal: Special Topics, 2015, 224, 1805-1816.	1.2	12
16	On the filtrate drilling fluid formation and near well-bore damage along the petroleum well. Journal of Petroleum Science and Engineering, 2015, 135, 299-313.	2.1	16
17	Thermo-chemical heterogeneous hydration gradient modeling of concrete and aggregates size effect on ITZ. Thermochimica Acta, 2014, 590, 165-180.	1.2	15
18	Modeling of the induced chemo-mechanical stress through porous cement mortar subjected to CO2: Enhanced micro-dilatation theory and 14C-PMMA method. Computational Materials Science, 2013, 69, 466-480.	1.4	23

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19	Chemo-physical modeling of cement mortar hydration: Role of aggregates. Thermochimica Acta, 2013, 564, 70-82.	1.2	12
20	Role of cement paste composition on the self induced stress in early-age mortars: Application of the Cosserat size number. Cement and Concrete Composites, 2013, 39, 43-59.	4.6	15
21	Size effect method application for modeling of human cancellous bone using geometrically exact Cosserat elasticity. Computer Methods in Applied Mechanics and Engineering, 2012, 237-240, 227-243.	3.4	27
22	Analytical and numerical studies on Penalized Micro-Dilatation (PMD) theory: Macro-micro link concept. European Journal of Mechanics, A/Solids, 2012, 34, 130-148.	2.1	29
23	A new multi-scale modeling approach based on hygro-Cosserat theory for self-induced stress in hydrating cementitious mortars. Computational Materials Science, 2011, 50, 2063-2074.	1.4	18
24	Environmentally motivated modeling of hygro-thermally induced stresses in the layered limestone masonry structures: Physical motivation and numerical modeling. Acta Mechanica, 2011, 220, 107-137.	1.1	17
25	On parallel simulation of a new linear Cosserat elasticity model with grid framework model assumptions. Applied Mathematical Modelling, 2011, 35, 4738-4758.	2.2	10
26	Enhanced numerical study of infinitesimal non-linear Cosserat theory based on the grain size length scale assumption. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2892-2902.	3.4	16
27	New Approach of Multi Scale Modeling Based on the Hygro-Cosserat Theory for Self Desiccation Deformation of Cement Mortars at Early Age. Advanced Materials Research, 2010, 123-125, 563-566.	0.3	2
28	Linear Cosserat Elasticity, Conformal Curvature and Bounded Stiffness. Advances in Mechanics and Mathematics, 2010, , 55-63.	0.2	17
29	Mean field modeling of isotropic random Cauchy elasticity versus microstretch elasticity. Zeitschrift Fur Angewandte Mathematik Und Physik, 2009, 60, 479-497.	0.7	29
30	A numerical study for linear isotropic Cosserat elasticity with conformally invariant curvature. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2009, 89, 552-569.	0.9	63
31	Subgrid interaction and micro-randomness â€“ Novel invariance requirements in infinitesimal gradient elasticity. International Journal of Solids and Structures, 2009, 46, 4261-4276.	1.3	45
32	Numerical simulation of elastic linear micropolar media based on the pore space length scale assumption. Strength of Materials, 2008, 40, 425-438.	0.2	11
33	Advanced volumetric method for fatigue life prediction using stress gradient effects at notch roots. Computational Materials Science, 2007, 39, 649-663.	1.4	60
34	Evaluation of the effect of corrosion defects on the structural integrity of X52 gas pipelines using the SINTAP procedure and notch theory. International Journal of Pressure Vessels and Piping, 2007, 84, 123-131.	1.2	47
35	Structural integrity evaluation of X52 gas pipes subjected to external corrosion defects using the SINTAP procedure. International Journal of Pressure Vessels and Piping, 2006, 83, 420-432.	1.2	59
36	Effect of specimen shape on the behavior of brittle materials using probabilistic and deterministic methods. Journal of the European Ceramic Society, 2006, 26, 3621-3629.	2.8	5

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37	Tensile strength of the brittle materials, probabilistic or deterministic approach?. Strength of Materials, 2006, 38, 72-83.	0.2	3
38	Application of volumetric method to the assessment of damage induced by action of foreign object on gas pipes. Strength of Materials, 2006, 38, 409-416.	0.2	4
39	Proposal of new damage model for thermal shock based on dynamic fracture on the brittle materials. Journal of Non-Crystalline Solids, 2005, 351, 2065-2075.	1.5	24
40	Three-Dimensional Finite Element Analysis of Tensile-Shear Spot-Welded Joints in Tensile and Compressive Loading Conditions. Strength of Materials, 2004, 36, 353-364.	0.2	15
41	Fatigue life duration prediction for welded spots by volumetric method. International Journal of Fatigue, 2004, 26, 81-94.	2.8	45
42	Theoretical and numerical aspects of the volumetric approach for fatigue life prediction in notched components. International Journal of Fatigue, 2003, 25, 67-76.	2.8	63