

Van-Dung Nguyen

List of Publications by Year in descending order

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21
papers

688
citations

687363

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all docs

21
docs citations

21
times ranked

615
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromechanics-based material networks revisited from the interaction viewpoint; robust and efficient implementation for multi-phase composites. <i>European Journal of Mechanics, A/Solids</i> , 2022, 91, 104384.	3.7	13
2	Interaction-based material network: A general framework for (porous) microstructured materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 389, 114300.	6.6	10
3	An incrementalâ€secant meanâ€field homogenization model enhanced with a nonâ€associated pressureâ€dependent plasticity model. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 4616-4654.	2.8	1
4	Piecewise-uniform homogenization of heterogeneous composites using a spatial decomposition based on inelastic micromechanics. <i>Composite Structures</i> , 2022, 295, 115836.	5.8	2
5	Ductile fracture of high strength steels with morphological anisotropy, Part I: Characterization, testing, and void nucleation law. <i>Engineering Fracture Mechanics</i> , 2021, 244, 107569.	4.3	13
6	Crack Propagation in the Tibia Bone within Total Knee Replacement Using the eXtended Finite Element Method. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4435.	2.5	1
7	Ductile fracture of high strength steels with morphological anisotropy, Part II: Nonlocal micromechanics-based modeling. <i>Engineering Fracture Mechanics</i> , 2021, 248, 107716.	4.3	5
8	A micromechanics-based non-local damage to crack transition framework for porous elastoplastic solids. <i>International Journal of Plasticity</i> , 2020, 127, 102631.	8.8	27
9	A recurrent neural network-accelerated multi-scale model for elasto-plastic heterogeneous materials subjected to random cyclic and non-proportional loading paths. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 369, 113234.	6.6	97
10	A nonlocal approach of ductile failure incorporating void growth, internal necking, and shear dominated coalescence mechanisms. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 137, 103891.	4.8	30
11	An inverse micro-mechanical analysis toward the stochastic homogenization of nonlinear random composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 348, 97-138.	6.6	17
12	A micro-mechanical model of reinforced polymer failure with length scale effects and predictive capabilities. Validation on carbon fiber reinforced high-crosslinked RTM6 epoxy resin. <i>Mechanics of Materials</i> , 2019, 133, 193-213.	3.2	20
13	A damage to crack transition model accounting for stress triaxiality formulated in a hybrid nonlocal implicit discontinuous Galerkinâ€cohesive band model framework. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 113, 374-410.	2.8	16
14	Unified treatment of microscopic boundary conditions and efficient algorithms for estimating tangent operators of the homogenized behavior in the computational homogenization method. <i>Computational Mechanics</i> , 2017, 59, 483-505.	4.0	22
15	A stochastic multi-scale approach for the modeling of thermo-elastic damping in micro-resonators. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 310, 802-839.	6.6	12
16	A large strain hyperelastic viscoelastic-viscoplastic-damage constitutive model based on a multi-mechanism non-local damage continuum for amorphous glassy polymers. <i>International Journal of Solids and Structures</i> , 2016, 96, 192-216.	2.7	72
17	A stochastic computational multiscale approach; Application to MEMS resonators. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 294, 141-167.	6.6	30
18	Experimental and computational micro-mechanical investigations of compressive properties of polypropylene/multi-walled carbon nanotubes nanocomposite foams. <i>Mechanics of Materials</i> , 2015, 91, 95-118.	3.2	15

#	ARTICLE	IF	CITATIONS
19	Computational homogenization of cellular materials. International Journal of Solids and Structures, 2014, 51, 2183-2203.	2.7	54
20	Multiscale computational homogenization methods with a gradient enhanced scheme based on the discontinuous Galerkin formulation. Computer Methods in Applied Mechanics and Engineering, 2013, 260, 63-77.	6.6	36
21	Imposing periodic boundary condition on arbitrary meshes by polynomial interpolation. Computational Materials Science, 2012, 55, 390-406.	3.0	195