Van-Dung Nguyen

List of Publications by Year
in descending order

		687363	713466
21	688	13	21
papers	citations	h-index	g-index
21	21	21	615
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Imposing periodic boundary condition on arbitrary meshes by polynomial interpolation. Computational Materials Science, 2012, 55, 390-406.	3.0	195
2	A recurrent neural network-accelerated multi-scale model for elasto-plastic heterogeneous materials subjected to random cyclic and non-proportional loading paths. Computer Methods in Applied Mechanics and Engineering, 2020, 369, 113234.	6.6	97
3	A large strain hyperelastic viscoelastic-viscoplastic-damage constitutive model based on a multi-mechanism non-local damage continuum for amorphous glassy polymers. International Journal of Solids and Structures, 2016, 96, 192-216.	2.7	72
4	Computational homogenization of cellular materials. International Journal of Solids and Structures, 2014, 51, 2183-2203.	2.7	54
5	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
6	A stochastic computational multiscale approach; Application to MEMS resonators. Computer Methods in Applied Mechanics and Engineering, 2015, 294, 141-167.	6.6	30
7	A nonlocal approach of ductile failure incorporating void growth, internal necking, and shear dominated coalescence mechanisms. Journal of the Mechanics and Physics of Solids, 2020, 137, 103891.	4.8	30
8	A micromechanics-based non-local damage to crack transition framework for porous elastoplastic solids. International Journal of Plasticity, 2020, 127, 102631.	8.8	27
9	Unified treatment of microscopic boundary conditions and efficient algorithms for estimating tangent operators of the homogenized behavior in the computational homogenization method. Computational Mechanics, 2017, 59, 483-505.	4.0	22
10	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. Mechanics of Materials, 2019, 133, 193-213.	3.2	20
11	An inverse micro-mechanical analysis toward the stochastic homogenization of nonlinear random composites. Computer Methods in Applied Mechanics and Engineering, 2019, 348, 97-138.	6.6	17
12	A damage to crack transition model accounting for stress triaxiality formulated in a hybrid nonlocal implicit discontinuous Galerkin–cohesive band model framework. International Journal for Numerical Methods in Engineering, 2018, 113, 374-410.	2.8	16
13	Experimental and computational micro-mechanical investigations of compressive properties of polypropylene/multi-walled carbon nanotubes nanocomposite foams. Mechanics of Materials, 2015, 91, 95-118.	3.2	15
14	Ductile fracture of high strength steels with morphological anisotropy, Part I: Characterization, testing, and void nucleation law. Engineering Fracture Mechanics, 2021, 244, 107569.	4.3	13
15	Micromechanics-based material networks revisited from the interaction viewpoint; robust and efficient implementation for multi-phase composites. European Journal of Mechanics, A/Solids, 2022, 91, 104384.	3.7	13
16	A stochastic multi-scale approach for the modeling of thermo-elastic damping in micro-resonators. Computer Methods in Applied Mechanics and Engineering, 2016, 310, 802-839.	6.6	12
17	Interaction-based material network: A general framework for (porous) microstructured materials. Computer Methods in Applied Mechanics and Engineering, 2022, 389, 114300.	6.6	10
18	Ductile fracture of high strength steels with morphological anisotropy, Part II: Nonlocal micromechanics-based modeling. Engineering Fracture Mechanics, 2021, 248, 107716.	4.3	5

#	Article	IF	Citations
19	Piecewise-uniform homogenization of heterogeneous composites using a spatial decomposition based on inelastic micromechanics. Composite Structures, 2022, 295, 115836.	5.8	2
20	Crack Propagation in the Tibia Bone within Total Knee Replacement Using the eXtended Finite Element Method. Applied Sciences (Switzerland), 2021, 11, 4435.	2.5	1
21	An incremental‐secant mean‐field homogenization model enhanced with a non‐associated pressure‐dependent plasticity model. International Journal for Numerical Methods in Engineering, 2022, 123, 4616-4654.	2.8	1