

Ling Wu

List of Publications by Year in descending order

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48
papers

856
citations

430442

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49
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times ranked

620
citing authors

#	ARTICLE	IF	CITATIONS
1	Recurrent Neural Networks (RNNs) with dimensionality reduction and break down in computational mechanics; application to multi-scale localization step. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 390, 114476.	3.4	25
2	An incremental-secant mean-field homogenization model enhanced with a non-associated pressure-dependent plasticity model. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 4616-4654.	1.5	1
3	Piecewise-uniform homogenization of heterogeneous composites using a spatial decomposition based on inelastic micromechanics. <i>Composite Structures</i> , 2022, 295, 115836.	3.1	2
4	Micro-mechanics and data-driven based reduced order models for multi-scale analyses of woven composites. <i>Composite Structures</i> , 2021, 270, 114058.	3.1	16
5	Tensile failure model of carbon fibre in unidirectionally reinforced epoxy composites with mean-field homogenisation. <i>Composite Structures</i> , 2021, 273, 114270.	3.1	7
6	Per-phase spatial correlated damage models of UD fibre reinforced composites using mean-field homogenisation; applications to notched laminate failure and yarn failure of plain woven composites. <i>Computers and Structures</i> , 2021, 257, 106650.	2.4	3
7	Bayesian inference of non-linear multiscale model parameters accelerated by a Deep Neural Network. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 360, 112693.	3.4	38
8	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.	3.4	97
9	Quasi-static crush modelling of carbon/epoxy composites with discontinuous Galerkin/anisotropic extrinsic cohesive law method. <i>Composite Structures</i> , 2019, 230, 111480.	3.1	2
10	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.	3.4	17
11	Bayesian identification of Mean-Field Homogenization model parameters and uncertain matrix behavior in non-aligned short fiber composites. <i>Composite Structures</i> , 2019, 220, 64-80.	3.1	33
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.	1.7	20
13	A finite strain incremental-secant homogenization model for elasto-plastic composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 347, 754-781.	3.4	7
14	A Bayesian Framework to Identify Random Parameter Fields Based on the Copula Theorem and Gaussian Fields: Application to Polycrystalline Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	1.1	13
15	From SEM images to elastic responses: A stochastic multiscale analysis of UD fiber reinforced composites. <i>Composite Structures</i> , 2018, 189, 206-227.	3.1	30
16	Stochastic Multiscale Model of MEMS Stiction Accounting for High-Order Statistical Moments of Non-Gaussian Contacting Surfaces. <i>Journal of Microelectromechanical Systems</i> , 2018, 27, 137-155.	1.7	6
17	A damage to crack transition model accounting for stress triaxiality formulated in a hybrid nonlocal implicit discontinuous Galerkin-cohesive band model framework. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 113, 374-410.	1.5	16
18	A micromechanics-based inverse study for stochastic order reduction of elastic UD fiber reinforced composites analyses. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 115, 1430-1456.	1.5	6

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19	Evaluation of microdamage initiation in Z-pinned laminates by means of automated RVE computations. <i>Composite Structures</i> , 2018, 206, 104-115.	3.1	15
20	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.	2.2	22
21	An incremental-secant mean-field homogenization method with second statistical moments for elasto-visco-plastic composite materials. <i>Mechanics of Materials</i> , 2017, 114, 180-200.	1.7	46
22	A computational stochastic multiscale methodology for MEMS structures involving adhesive contact. <i>Tribology International</i> , 2017, 110, 401-425.	3.0	12
23	Propagation of material and surface profile uncertainties on MEMS micro-resonators using a stochastic second-order computational multi-scale approach. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 111, 26-68.	1.5	9
24	A Stochastic Multi-Scale Model for Predicting MEMS Stiction Failure. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 1-8.	0.3	0
25	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.	3.4	12
26	A study of dry stiction phenomenon in MEMS using a computational stochastic multi-scale methodology. , 2016, , .		1
27	An XFEM/CZM implementation for massively parallel simulations of composites fracture. <i>Composite Structures</i> , 2015, 125, 542-557.	3.1	36
28	A probabilistic model for predicting the uncertainties of the humid stiction phenomenon on hard materials. <i>Journal of Computational and Applied Mathematics</i> , 2015, 289, 173-195.	1.1	5
29	A stochastic computational multiscale approach; Application to MEMS resonators. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 294, 141-167.	3.4	30
30	A study of composite laminates failure using an anisotropic gradient-enhanced damage mean-field homogenization model. <i>Composite Structures</i> , 2015, 126, 246-264.	3.1	26
31	An incremental-secant mean-field homogenization method with second statistical moments for elasto-plastic composite materials. <i>Philosophical Magazine</i> , 2015, 95, 3348-3384.	0.7	20
32	Elastic damage to crack transition in a coupled non-local implicit discontinuous Galerkin/extrinsic cohesive law framework. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 279, 379-409.	3.4	24
33	Non-local Damage-Enhanced MFH for Multiscale Simulations of Composites. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013, , 115-121.	0.3	1
34	A micro-meso-model of intra-laminar fracture in fiber-reinforced composites based on a discontinuous Galerkin/cohesive zone method. <i>Engineering Fracture Mechanics</i> , 2013, 104, 162-183.	2.0	54
35	A combined incremental-secant mean-field homogenization scheme with per-phase residual strains for elasto-plastic composites. <i>International Journal of Plasticity</i> , 2013, 51, 80-102.	4.1	57
36	An implicit-gradient-enhanced incremental-secant mean-field homogenization scheme for elasto-plastic composites with damage. <i>International Journal of Solids and Structures</i> , 2013, 50, 3843-3860.	1.3	39

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37	A micro-model for elasto-plastic adhesive contact in micro-switches: Application to cyclic loading. Tribology International, 2013, 57, 137-146.	3.0	18
38	Stiction Failure in Microswitches Due to Elasto-Plastic Adhesive Contacts. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 67-74.	0.3	1
39	A multiscale mean-field homogenization method for fiber-reinforced composites with gradient-enhanced damage models. Computer Methods in Applied Mechanics and Engineering, 2012, 233-236, 164-179.	3.4	39
40	Research of structural health monitoring based on mode analysis for UAV wings. , 2011, , .		1
41	A Micro-Macroapproach to Predict Stiction due to Surface Contact in Microelectromechanical Systems. Journal of Microelectromechanical Systems, 2011, 20, 976-990.	1.7	24
42	Design of Microswitch Systems Avoiding Stiction due to Surface Contact. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 189-195.	0.3	0
43	Prediction of stiction in microswitch systems. , 2010, , .		0
44	Influence of adhesive rough surface contact on microswitches. Journal of Applied Physics, 2009, 106, .	1.1	12
45	Equivalent Differential Computation of the Elastic Moduli of Randomly Short-Fiber Reinforced Composite. Key Engineering Materials, 2003, 243-244, 39-44.	0.4	0
46	An Experimental Study on the Mechanical Performance and Damage Evolution of Woven Fabric E-Glass Fiber Reinforced Epoxy Composite. Key Engineering Materials, 0, 417-418, 137-140.	0.4	1
47	Study of Dynamic Impact Behaviors and Ballistic Properties of Hybrid Composites. Key Engineering Materials, 0, 417-418, 213-216.	0.4	1
48	Study of Dynamic Impact Behaviors and Ballistic Properties of Ceramic/UHMWPE Composite Armor. Applied Mechanics and Materials, 0, 121-126, 397-400.	0.2	1