

Jithender J Timothy

List of Publications by Year in descending order

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37
papers

312
citations

933447

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888059

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45
all docs

45
docs citations

45
times ranked

232
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational Analysis of Concrete Flow in a Reinforced Bored Pile Using the Porous Medium Approach. <i>Applied Mechanics</i> , 2022, 3, 481-495.	1.5	0
2	Multiscale modeling of Retinal Hypoxia due to Age-related Macular Degeneration. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000297.	0.2	1
3	Computational analysis of the influence of drusen growth on the morphology of RPE due to Age-related Macular Degeneration. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000298.	0.2	1
4	Multiscale modeling of distributed microcracking in concrete. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000228.	0.2	0
5	Computational Generation of Virtual Concrete Mesostructures. <i>Materials</i> , 2021, 14, 3782.	2.9	20
6	Reduced Order Multiscale Simulation of Diffuse Damage in Concrete. <i>Materials</i> , 2021, 14, 3830.	2.9	2
7	Sensitivity of Ultrasonic Coda Wave Interferometry to Material Damage—Observations from a Virtual Concrete Lab. <i>Materials</i> , 2021, 14, 4033.	2.9	5
8	Numerical Simulation-Based Damage Identification in Concrete. <i>Modelling</i> , 2021, 2, 355-369.	1.4	5
9	Deterioration of concrete due to ASR: Experiments and multiscale modeling. <i>Cement and Concrete Research</i> , 2021, 149, 106575.	11.0	17
10	A Multiscale drusen growth model for Age-related Macular Degeneration. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 21, .	0.2	0
11	Computational modelling of compressible cementitious composite materials. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 21, .	0.2	0
12	Damage identification in concrete using multiscale computational modeling and convolutional neural networks. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 21, .	0.2	0
13	Cementitious Composites with High Compaction Potential: Modeling and Calibration. <i>Materials</i> , 2020, 13, 4989.	2.9	10
14	Fatigue behavior of HPC and FRC under cyclic tensile loading: Experiments and modeling. <i>Structural Concrete</i> , 2019, 20, 1265-1278.	3.1	14
15	Expansion and deterioration of concrete due to ASR: Micromechanical modeling and analysis. <i>Cement and Concrete Research</i> , 2019, 115, 507-518.	11.0	37
16	Simulation-based investigation of the influence of the microstructure and disorder on damage evolution in concrete. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800380.	0.2	1
17	Effective Diffusivity of Porous Materials with Microcracks: Self-Similar Mean-Field Homogenization and Pixel Finite Element Simulations. <i>Transport in Porous Media</i> , 2018, 125, 413-434.	2.6	9
18	A Multiscale Model for High Performance FRC. <i>RILEM Bookseries</i> , 2018, , 97-105.	0.4	1

#	ARTICLE	IF	CITATIONS
19	The intrinsic permeability of microcracks in porous solids: Analytical models and Lattice Boltzmann simulations. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2017, 41, 1138-1154.	3.3	7
20	Cascade Continuum Micromechanics model for the effective permeability of solids with distributed microcracks: Comparison with numerical homogenization. <i>Mechanics of Materials</i> , 2017, 115, 64-75.	3.2	3
21	Degradation in concrete structures due to cyclic loading and its effect on transport processes—Experiments and modeling. <i>Structural Concrete</i> , 2017, 18, 519-527.	3.1	10
22	Wave dispersion and propagation in state-based peridynamics. <i>Computational Mechanics</i> , 2017, 60, 725-738.	4.0	71
23	Cascade continuum micromechanics model for the effective permeability of solids with distributed microcracks: Self-similar mean-field homogenization and image analysis. <i>Mechanics of Materials</i> , 2017, 104, 60-72.	3.2	10
24	The effective thermal conductivity of carbon nanotube composites. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017, 17, 613-614.	0.2	0
25	A micromechanics model for molecular diffusion in materials with complex pore structure. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016, 40, 686-712.	3.3	8
26	Cascade Lattice Micromechanics Model for the Effective Permeability of Materials with Microcracks. <i>Journal of Nanomechanics & Micromechanics</i> , 2016, 6, .	1.4	11
27	Modeling the effective permeability of microcracked materials using continuum and lattice micromechanics. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016, 16, 555-556.	0.2	0
28	A micromechanics model for FRC composites. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016, 16, 543-544.	0.2	2
29	A cascade continuum micromechanics model for the effective elastic properties of porous materials. <i>International Journal of Solids and Structures</i> , 2016, 83, 1-12.	2.7	39
30	Cascade Continuum Micromechanics Model for the Effective Diffusivity of Porous Materials: Exponential Hierarchy across Cascade Levels. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015, 15, 471-472.	0.2	3
31	Computational Modeling of Concrete Degradation Due to Alkali Silica Reaction. , 2015, , .		1
32	Hydraulic effects of fracture in brittle porous materials. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014, 14, 135-136.	0.2	1
33	Numerical analysis of multiple ion species diffusion and Alkali-Silica Reaction in concrete. , 2014, , 789-796.		1
34	Diffusion in Fracturing Porous Materials: Characterizing Topological Effects using Cascade Micromechanics and Phase-Field Models. , 2013, , .		3
35	Micromechanics model for tortuosity and homogenized diffusion properties of porous materials with distributed micro-cracks. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011, 11, 555-556.	0.2	5
36	Determination of homogenized diffusion properties in micro-cracked porous materials. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2010, 10, 429-430.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Multiscale modeling FRC Composites. , 0, , .		0