Maryam Shakiba

List of Publications by Year
in descending order

21 papers	358 citations	759233 12 h-index	839539 18 g-index
21 all docs	21 docs citations	21 times ranked	212 citing authors

#	Article	IF	Citations
1	Vehicle excess fuel consumption due to pavement deflection. Road Materials and Pavement Design, 2023, 24, 609-630.	4.0	5
2	Micromechanical study of multiple transverse cracking in cross-ply fiber-reinforced composite laminates. Composite Structures, 2022, 281, 114986.	5.8	9
3	Physics and chemistry-based constitutive modeling of photo-oxidative aging in semi-crystalline polymers. International Journal of Solids and Structures, 2022, 239-240, 111427.	2.7	6
4	A data-driven approach to full-field nonlinear stress distribution and failure pattern prediction in composites using deep learning. Computer Methods in Applied Mechanics and Engineering, 2022, 397, 115126.	6.6	28
5	Detecting transverse cracks initiation in composite laminates via statistical analysis of sensitivity data. Mechanics Research Communications, 2021, 115, 103701.	1.8	3
6	Micromechanical Study of Porosity Effects on Coupled Moisture-Mechanical Responses of Viscoelastic Asphalt Concrete. Journal of Engineering Mechanics - ASCE, 2021, 147, .	2.9	5
7	Flooded Pavement: Numerical Investigation of Saturation Effects on Asphalt Pavement Structures. Journal of Transportation Engineering Part B: Pavements, 2021, 147, .	1.5	6
8	Overcoming the convergence difficulty of cohesive zone models through a Newton-Raphson modification technique. Engineering Fracture Mechanics, 2020, 233, 107046.	4.3	11
9	Impact of Void Morphology on the Mechanical Response of Time-Dependent Heterogeneous Media: A Numerical Investigation Approach. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	3
10	Transverse Failure of Unidirectional Composites: Sensitivity to Interfacial Properties. , 2020, , 329-347.		4
11	Transverse failure of carbon fiber composites: Analytical sensitivity to the distribution of fiber/matrix interface properties. International Journal for Numerical Methods in Engineering, 2019, 120, 650-665.	2.8	16
12	Introducing realistic tireâ€“pavement contact stresses into Pavement Analysis using Nonlinear Damage Approach (PANDA). International Journal of Pavement Engineering, 2017, 18, 1027-1038.	4.4	25
13	Effect of Pore Water Pressure on Response of Asphalt Concrete. Transportation Research Record, 2017, 2631, 114-122.	1.9	17
14	Mechanics based model for predicting structure-induced rolling resistance (SRR) of the tire-pavement system. Mechanics of Time-Dependent Materials, 2016, 20, 579-600.	4.4	24
15	A thermodynamic framework for constitutive modeling of coupled moisture-mechanical induced damage in partially saturated viscous porous media. Mechanics of Materials, 2016, 96, 53-75.	3.2	15
16	Three-dimensional microstructural modelling of coupled moistureâ€“mechanical response of asphalt concrete. International Journal of Pavement Engineering, 2015, 16, 445-466.	4.4	19
17	Constitutive Modeling of the Coupled Moisture-Mechanical Response of Particulate Composite Materials with Application to Asphalt Concrete. Journal of Engineering Mechanics - ASCE, 2015, 141, .	2.9	13
18	Microstructural modeling of asphalt concrete using a coupled moistureâ€“mechanical constitutive relationship. International Journal of Solids and Structures, 2014, 51, 4260-4279.	2.7	33

#	Article	IF	Citations
19	Continuum Coupled Moistureâ€“Mechanical Damage Model for Asphalt Concrete. Transportation Research Record, 2013, 2372, 72-82.	1.9	25
20	Postbuckling and ultimate state of stresses in steel plate girders. Thin-Walled Structures, 2011, 49, 455-464.	5.3	27
21	Shear failure characteristics of steel plate girders. Thin-Walled Structures, 2009, 47, 1498-1506.	5.3	64