

# Maryam Shakiba

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

358  
citations

759055

12  
h-index

839398

18  
g-index

21  
all docs

21  
docs citations

21  
times ranked

212  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear failure characteristics of steel plate girders. <i>Thin-Walled Structures</i> , 2009, 47, 1498-1506.	2.7	64
2	Microstructural modeling of asphalt concrete using a coupled moisture-mechanical constitutive relationship. <i>International Journal of Solids and Structures</i> , 2014, 51, 4260-4279.	1.3	33
3	A data-driven approach to full-field nonlinear stress distribution and failure pattern prediction in composites using deep learning. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 397, 115126.	3.4	28
4	Postbuckling and ultimate state of stresses in steel plate girders. <i>Thin-Walled Structures</i> , 2011, 49, 455-464.	2.7	27
5	Continuum Coupled Moisture-Mechanical Damage Model for Asphalt Concrete. <i>Transportation Research Record</i> , 2013, 2372, 72-82.	1.0	25
6	Introducing realistic tire-pavement contact stresses into Pavement Analysis using Nonlinear Damage Approach (PANDA). <i>International Journal of Pavement Engineering</i> , 2017, 18, 1027-1038.	2.2	25
7	Mechanics based model for predicting structure-induced rolling resistance (SRR) of the tire-pavement system. <i>Mechanics of Time-Dependent Materials</i> , 2016, 20, 579-600.	2.3	24
8	Three-dimensional microstructural modelling of coupled moisture-mechanical response of asphalt concrete. <i>International Journal of Pavement Engineering</i> , 2015, 16, 445-466.	2.2	19
9	Effect of Pore Water Pressure on Response of Asphalt Concrete. <i>Transportation Research Record</i> , 2017, 2631, 114-122.	1.0	17
10	Transverse failure of carbon fiber composites: Analytical sensitivity to the distribution of fiber/matrix interface properties. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 120, 650-665.	1.5	16
11	A thermodynamic framework for constitutive modeling of coupled moisture-mechanical induced damage in partially saturated viscous porous media. <i>Mechanics of Materials</i> , 2016, 96, 53-75.	1.7	15
12	Constitutive Modeling of the Coupled Moisture-Mechanical Response of Particulate Composite Materials with Application to Asphalt Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , 2015, 141, .	1.6	13
13	Overcoming the convergence difficulty of cohesive zone models through a Newton-Raphson modification technique. <i>Engineering Fracture Mechanics</i> , 2020, 233, 107046.	2.0	11
14	Micromechanical study of multiple transverse cracking in cross-ply fiber-reinforced composite laminates. <i>Composite Structures</i> , 2022, 281, 114986.	3.1	9
15	Flooded Pavement: Numerical Investigation of Saturation Effects on Asphalt Pavement Structures. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2021, 147, .	0.8	6
16	Physics and chemistry-based constitutive modeling of photo-oxidative aging in semi-crystalline polymers. <i>International Journal of Solids and Structures</i> , 2022, 239-240, 111427.	1.3	6
17	Micromechanical Study of Porosity Effects on Coupled Moisture-Mechanical Responses of Viscoelastic Asphalt Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	1.6	5
18	Vehicle excess fuel consumption due to pavement deflection. <i>Road Materials and Pavement Design</i> , 2023, 24, 609-630.	2.0	5

#	ARTICLE	IF	CITATIONS
19	Transverse Failure of Unidirectional Composites: Sensitivity to Interfacial Properties. , 2020, , 329-347.		4
20	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, .	1.3	3
21	Detecting transverse cracks initiation in composite laminates via statistical analysis of sensitivity data. Mechanics Research Communications, 2021, 115, 103701.	1.0	3