

Ravi Kiran Yellavajjala

List of Publications by Citations

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45
papers

652
citations

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h-index

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47
ext. papers

836
ext. citations

4.6
avg, IF

5.09
L-index

#	Paper	IF	Citations
45	A triaxiality and Lode parameter dependent ductile fracture criterion. <i>Engineering Fracture Mechanics</i> , 2014 , 128, 121-138	4.2	74
44	A micromechanical model for ductile fracture prediction in ASTM A992 steels. <i>Engineering Fracture Mechanics</i> , 2013 , 102, 101-117	4.2	43
43	Gurson model parameters for ductile fracture simulation in ASTM A992 steels. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2014 , 37, 171-183	3	39
42	Influence of stress concentration and cooling methods on post-fire mechanical behavior of ASTM A36 steels. <i>Construction and Building Materials</i> , 2018 , 186, 920-945	6.7	35
41	A micromechanical cyclic void growth model for ultra-low cycle fatigue. <i>International Journal of Fatigue</i> , 2015 , 70, 24-37	5	34
40	Experimental Studies and Models for Ductile Fracture in ASTM A992 Steels at High Triaxiality. <i>Journal of Structural Engineering</i> , 2014 , 140, 04013044	3	32
39	Modified pullout test for indirect characterization of natural fiber and cementitious matrix interface properties. <i>Construction and Building Materials</i> , 2019 , 208, 381-393	6.7	28
38	Influence of corrosion and surface roughness on wettability of ASTM A36 steels. <i>Journal of Constructional Steel Research</i> , 2018 , 144, 310-326	3.8	28
37	Wheat Lodging Detection from UAS Imagery Using Machine Learning Algorithms. <i>Remote Sensing</i> , 2020 , 12, 1838	5	27
36	Post-fire mechanical behavior of ASTM A572 steels subjected to high stress triaxialities. <i>Engineering Structures</i> , 2019 , 191, 323-342	4.7	26
35	Complex step derivative approximation for numerical evaluation of tangent moduli. <i>Computers and Structures</i> , 2014 , 140, 1-13	4.5	23
34	Combined effects of triaxiality, Lode parameter and shear stress on void growth and coalescence. <i>Engineering Fracture Mechanics</i> , 2018 , 199, 410-437	4.2	22
33	Texture-Based Metallurgical Phase Identification in Structural Steels: A Supervised Machine Learning Approach. <i>Metals</i> , 2019 , 9, 546	2.3	19
32	A coupled microvoid elongation and dilation based ductile fracture model for structural steels. <i>Engineering Fracture Mechanics</i> , 2015 , 145, 15-42	4.2	16
31	Fast-to-Compute Weakly Coupled Ductile Fracture Model for Structural Steels. <i>Journal of Structural Engineering</i> , 2014 , 140, 04014018	3	16
30	Naïve Bayes classifier, multivariate linear regression and experimental testing for classification and characterization of wheat straw based on mechanical properties. <i>Industrial Crops and Products</i> , 2018 , 112, 434-448	5.9	15
29	Employing corn derived products to reduce the corrosivity of pavement deicing materials. <i>Construction and Building Materials</i> , 2020 , 263, 120662	6.7	14

28	Microstructure Mechanical Property Relationships for Post-Fire Structural Steels. <i>Journal of Materials in Civil Engineering</i> , 2020 , 32, 04020133	3	13
27	On anisotropy, strain rate and size effects in vat photopolymerization based specimens. <i>Additive Manufacturing</i> , 2018 , 23, 181-196	6.1	13
26	Identification and characterization of fracture in metals using machine learning based texture recognition algorithms. <i>Engineering Fracture Mechanics</i> , 2019 , 219, 106618	4.2	12
25	Automatic implementation of finite strain anisotropic hyperelastic models using hyper-dual numbers. <i>Computational Mechanics</i> , 2015 , 55, 229-248	4	12
24	Influence of high stress triaxiality on mechanical strength of ASTM A36, ASTM A572 and ASTM A992 steels. <i>Construction and Building Materials</i> , 2018 , 176, 129-134	6.7	12
23	Performance of cubic convergent methods for implementing nonlinear constitutive models. <i>Computers and Structures</i> , 2015 , 156, 83-100	4.5	11
22	Complex Perturbation Method for Sensitivity Analysis of Nonlinear Trusses. <i>Journal of Structural Engineering</i> , 2017 , 143, 04016154	3	11
21	Data Mining and Equi-Accident Zones for US Pipeline Accidents. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2018 , 9, 04018019	1.5	9
20	Numerically approximated Cauchy integral (NACI) for implementation of constitutive models. <i>Finite Elements in Analysis and Design</i> , 2014 , 89, 33-51	2.2	7
19	Fugitive Dust Suppression in Unpaved Roads: State of the Art Research Review. <i>Sustainability</i> , 2021 , 13, 2399	3.6	6
18	Detection of Corrosion-Indicating Oxidation Product Colors in Steel Bridges under Varying Illuminations, Shadows, and Wetting Conditions. <i>Metals</i> , 2020 , 10, 1439	2.3	5
17	Computational Models for Ductile Fracture Prediction in Structural Engineering Applications 2014 , 3, 1947-1955		5
16	A case study on pre 1970s constructed concrete exterior beam-column joints. <i>Case Studies in Structural Engineering</i> , 2014 , 1, 20-25		5
15	A modified micromechanics framework to predict shear involved ductile fracture in structural steels at intermediate and low-stress triaxialities. <i>Engineering Fracture Mechanics</i> , 2020 , 225, 106860	4.2	5
14	Additive Manufacturing and Mechanical Performance of Trifurcated Steel Joints for Architecturally Exposed Steel Structures. <i>Materials</i> , 2020 , 13,	3.5	4
13	Analysis and design of a three-phase TRIP steel microstructure for enhanced fracture resistance. <i>International Journal of Fracture</i> , 2020 , 221, 53-85	2.3	4
12	Exploring the Use of Polyols, Corn, and Beet Juice for Decreasing the Freezing Point of Brine Solution for Deicing of Pavements. <i>Sustainability</i> , 2021 , 13, 5765	3.6	4
11	Improving the ice-melting capacity of traditional deicers. <i>Construction and Building Materials</i> , 2021 , 271, 121527	6.7	4

10	A survey on the effects of deicing materials on properties of Cement-based materials. <i>Construction and Building Materials</i> , 2022 , 319, 126062	6.7	3
9	A novel sensitivity-based method for feature selection. <i>Journal of Big Data</i> , 2021 , 8,	11.7	3
8	Effect of agro-derived corrosion inhibitors on the properties of Portland cement mortar. <i>Construction and Building Materials</i> , 2021 , 310, 125236	6.7	3
7	High-risk human papillomaviruses and Epstein-Barr virus in breast cancer in Lebanese women and their association with tumor grade: a molecular and tissue microarray study. <i>Cancer Cell International</i> , 2021 , 21, 308	6.4	3
6	Novel sensitivity method for evaluating the first derivative of the feed-forward neural network outputs. <i>Journal of Big Data</i> , 2021 , 8,	11.7	2
5	Improving the wettability of structural steels by employing ionic liquids. <i>Journal of Molecular Liquids</i> , 2021 , 324, 115137	6	2
4	On the application of multipoint Root-Solvers for improving global convergence of fracture problems. <i>Engineering Fracture Mechanics</i> , 2018 , 193, 77-95	4.2	1
3	Soy-protein and corn-derived polyol based coatings for corrosion mitigation in reinforced concrete. <i>Construction and Building Materials</i> , 2022 , 319, 126056	6.7	1
2	Hyperspectral imaging for the elimination of visual ambiguity in corrosion detection and identification of corrosion sources. <i>Structural Health Monitoring</i> , 147592172110416	4.4	1
1	Closure to a Complex Perturbation Method for Sensitivity Analysis of Nonlinear Trusses by Ravi Kiran, Lei Li, and Kapil Khandelwal. <i>Journal of Structural Engineering</i> , 2017 , 143, 07017006	3	