

Ravi Kiran Yellavajjala

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

652
citations

15
h-index

23
g-index

47
ext. papers

836
ext. citations

4.6
avg, IF

5.09
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 45 | 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 |
| 44 | 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 |
| 43 | A novel sensitivity-based method for feature selection. <i>Journal of Big Data</i> , 2021 , 8, | 11.7 | 3 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | Improving the ice-melting capacity of traditional deicers. <i>Construction and Building Materials</i> , 2021 , 271, 121527 | 6.7 | 4 |
| 37 | Improving the wettability of structural steels by employing ionic liquids. <i>Journal of Molecular Liquids</i> , 2021 , 324, 115137 | 6 | 2 |
| 36 | Fugitive Dust Suppression in Unpaved Roads: State of the Art Research Review. <i>Sustainability</i> , 2021 , 13, 2399 | 3.6 | 6 |
| 35 | 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 |
| 34 | Microstructure Mechanical Property Relationships for Post-Fire Structural Steels. <i>Journal of Materials in Civil Engineering</i> , 2020 , 32, 04020133 | 3 | 13 |
| 33 | Wheat Lodging Detection from UAS Imagery Using Machine Learning Algorithms. <i>Remote Sensing</i> , 2020 , 12, 1838 | 5 | 27 |
| 32 | Additive Manufacturing and Mechanical Performance of Trifurcated Steel Joints for Architecturally Exposed Steel Structures. <i>Materials</i> , 2020 , 13, | 3.5 | 4 |
| 31 | 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 |
| 30 | 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 |
| 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 |

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| 28 | 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 |
| 27 | Post-fire mechanical behavior of ASTM A572 steels subjected to high stress triaxialities. <i>Engineering Structures</i> , 2019 , 191, 323-342 | 4.7 | 26 |
| 26 | Texture-Based Metallurgical Phase Identification in Structural Steels: A Supervised Machine Learning Approach. <i>Metals</i> , 2019 , 9, 546 | 2.3 | 19 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | On anisotropy, strain rate and size effects in vat photopolymerization based specimens. <i>Additive Manufacturing</i> , 2018 , 23, 181-196 | 6.1 | 13 |
| 18 | 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 |
| 17 | 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 |
| 16 | Closure to 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 | |
| 15 | Complex Perturbation Method for Sensitivity Analysis of Nonlinear Trusses. <i>Journal of Structural Engineering</i> , 2017 , 143, 04016154 | 3 | 11 |
| 14 | 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 |
| 13 | Automatic implementation of finite strain anisotropic hyperelastic models using hyper-dual numbers. <i>Computational Mechanics</i> , 2015 , 55, 229-248 | 4 | 12 |
| 12 | Performance of cubic convergent methods for implementing nonlinear constitutive models. <i>Computers and Structures</i> , 2015 , 156, 83-100 | 4.5 | 11 |
| 11 | A micromechanical cyclic void growth model for ultra-low cycle fatigue. <i>International Journal of Fatigue</i> , 2015 , 70, 24-37 | 5 | 34 |

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| 10 | Computational Models for Ductile Fracture Prediction in Structural Engineering Applications 2014 , 3, 1947-1955 | | 5 |
| 9 | Fast-to-Compute Weakly Coupled Ductile Fracture Model for Structural Steels. <i>Journal of Structural Engineering</i> , 2014 , 140, 04014018 | 3 | 16 |
| 8 | 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 |
| 7 | A case study on pre 1970s constructed concrete exterior beam-column joints. <i>Case Studies in Structural Engineering</i> , 2014 , 1, 20-25 | | 5 |
| 6 | Complex step derivative approximation for numerical evaluation of tangent moduli. <i>Computers and Structures</i> , 2014 , 140, 1-13 | 4-5 | 23 |
| 5 | 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 |
| 4 | A triaxiality and Lode parameter dependent ductile fracture criterion. <i>Engineering Fracture Mechanics</i> , 2014 , 128, 121-138 | 4.2 | 74 |
| 3 | 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 |
| 2 | A micromechanical model for ductile fracture prediction in ASTM A992 steels. <i>Engineering Fracture Mechanics</i> , 2013 , 102, 101-117 | 4.2 | 43 |
| 1 | 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 |