Behzad V Farahani

List of Publications by Year
in descending order

40 papers	462 citations	840776 11 h-index	752698 20 g-index
40 all docs	40 docs citations	40 times ranked	282 citing authors

#	Article	IF	Citations
1	A coupled 3D laser scanning and digital image correlation system for geometry acquisition and deformation monitoring of a railway tunnel. Tunnelling and Underground Space Technology, 2019, 91, 102995.	6.2	65
2	Stress intensity factor calculation through thermoelastic stress analysis, finite element and RPIM meshless method. Engineering Fracture Mechanics, 2017, 183, 66-78.	4.3	41
3	Extending radial point interpolating meshless methods to the elasto-plastic analysis of aluminium alloys. Engineering Analysis With Boundary Elements, 2019, 100, 101-117.	3.7	33
4	A Fracture Mechanics Study of a Compact Tension Specimen: Digital Image Correlation, Finite Element and Meshless Methods. Procedia Structural Integrity, 2017, 5, 920-927.	0.8	24
5	A railway tunnel structural monitoring methodology proposal for predictive maintenance. Structural Control and Health Monitoring, 2020, 27, e2587.	4.0	24
6	Fatigue behaviour evaluation of dissimilar polymer joints: Friction stir welded, single and double-rivets. International Journal of Fatigue, 2018, 113, 351-358.	5.7	20
7	Compact tension fracture specimen: Experimental and computational implementations on stress intensity factor. Journal of Strain Analysis for Engineering Design, 2018, 53, 630-647.	1.8	20
8	The Axisymmetric Analysis of Circular Plates Using the Radial Point Interpolation Method. International Journal for Computational Methods in Engineering Science and Mechanics, 2015, 16, 336-353.	2.1	19
9	Extending a radial point interpolation meshless method to non-local constitutive damage models. Theoretical and Applied Fracture Mechanics, 2016, 85, 84-98.	4.7	18
10	A digital image correlation analysis on a sheet AA6061-T6 bi-failure specimen to predict static failure. Engineering Failure Analysis, 2018, 90, 179-196.	4.0	18
11	On the optimal shape parameters of distinct versions of RBF meshless methods for the bending analysis of plates. Engineering Analysis With Boundary Elements, 2017, 84, 77-86.	3.7	14
12	Material characterization and damage assessment of an AA5352 aluminium alloy using digital image correlation. Journal of Strain Analysis for Engineering Design, 2020, 55, 3-19.	1.8	12
13	Crack tip monitoring by multiscale optical experimental techniques. International Journal of Fatigue, 2022, 155, 106610.	5.7	12
14	SIF Determination with Thermoelastic Stress Analysis. Procedia Structural Integrity, 2016, 2, 2148-2155.	0.8	11
15	A meshless approach to non-local damage modelling of concrete. Engineering Analysis With Boundary Elements, 2017, 79, 62-74.	3.7	11
16	A GTN Failure Analysis of an AA6061-T6 Bi-Failure Specimen. Procedia Structural Integrity, 2017, 5, 981-988.	0.8	11
17	Elastoplastic response and failure assessment of steel alloys: Empirical and computational analyses. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1247-1261.	3.4	11
18	Concept of stress dead zone in cracked plates: Theoretical, experimental, and computational studies. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2457-2467.	3.4	10

#	Article	IF	Citations
19	On the Non-linear Elasto-Plastic Behavior of AA6061-T6: Experimental and Numerical Implementations. Procedia Structural Integrity, 2017, 5, 468-475.	0.8	8
20	A radial point interpolation meshless method extended with an elastic rate-independent continuum damage model for concrete materials. Mechanics of Advanced Materials and Structures, 2018, 25, 855-867.	2.6	8
21	Dynamic Modal Analysis of a Passenger Bus: Theoretical and Numerical Studies. Transportation Research Record, 2021, 2675, 264-279.	1.9	8
22	An Elasto-plastic Analysis of a DP600 Bi-Failure Specimen: Digital Image Correlation, Finite Element and Meshless Methods. Procedia Structural Integrity, 2017, 5, 1237-1244.	0.8	7
23	A meshless method in the non-local constitutive damage models. Procedia Structural Integrity, 2016, 1, 226-233.	0.8	6
24	A nonlinear simulation of a bi-failure specimen through improved discretisation methods: A validation study. Journal of Strain Analysis for Engineering Design, 2018, 53, 616-629.	1.8	6
25	A fracture study of slanted cracks using the stress deadâ€zone hypothesis. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 3012-3026.	3.4	6
26	Fracture Toughness Determination on an SCB Specimen by Meshless Methods. Applied Sciences (Switzerland), 2022, 12, 2633.	2.5	5
27	New Approaches on the Stress Intensity Factor Characterization - Review. Procedia Structural Integrity, 2020, 28, 226-233.	0.8	4
28	An Optimized RBF Analysis of an Isotropic Mindlin Plate in Bending. Procedia Structural Integrity, 2017, 5, 584-591.	0.8	3
29	Geometry Acquisition and 3D Modelling of a Wind Tower using a 3D Laser Scanning Technology. Procedia Structural Integrity, 2019, 17, 712-717.	0.8	3
30	Fracture Analysis of Semi-circular Bend (SCB) Specimen: A Numerical Study. Structural Integrity, 2019, , 407-413.	1.4	3
31	Biomechanical effects of Teuscher activator in hyperdivergent Class II malocclusion treatment: A finite element analysis. Journal of Clinical and Experimental Dentistry, 2021, 13, e1124-1130.	1.2	3
32	Electronic Speckle Pattern Interferometry for fatigue crack monitoring. Procedia Structural Integrity, 2022, 37, 873-879.	0.8	3
33	Advancement on optical methods in stress dead-zone characterisation and SIF evaluation. Engineering Failure Analysis, 2022, 140, 106493.	4.0	3
34	Advanced image based methods for structural integrity monitoring: Review and prospects. AIP Conference Proceedings, 2018, , .	0.4	2
35	A Stress Intensity Factor Study for a Pressure Vessel CT Specimen Using Finite Element Method. Structural Integrity, 2019, , 181-186.	1.4	2
36	Stress intensity factor evaluation for central oriented cracks by stress deadâ€zone concept. Material Design and Processing Communications, 2021, 3, e139.	0.9	2

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37	Passive Safety Solutions on Transit Buses: Experimental and Numerical Analyses. Procedia Structural Integrity, 2022, 37, 668-675.	0.8	2
38	A Numerical Dynamic Analysis of a Multi-Body Bus. Procedia Structural Integrity, 2022, 37, 81-88.	0.8	2
39	A Novel Analytical Solution on the Mode I SIF for Finite Plates with Slanted Cracks. Procedia Structural Integrity, 2020, 28, 218-225.	0.8	1
40	Numerical and Theoretical Modal Analysis of Transit Buses. Procedia Structural Integrity, 2022, 37, 73-80.	0.8	1