Naser Khaji

List of Publications by Year
in descending order

58 papers	1,267 citations	393982 19 h-index	377514 34 g-index
58 all docs	58 docs citations	58 times ranked	824 citing authors

#	Article	IF	Citations
1	Damage detection of truss bridge joints using Artificial Neural Networks. Expert Systems With Applications, 2008, 35, 1122-1131.	4.4	239
2	Closed-form solutions for crack detection problem of Timoshenko beams with various boundary conditions. International Journal of Mechanical Sciences, 2009, 51, 667-681.	3.6	70
3	On the seismic behavior of cylindrical base-isolated liquid storage tanks excited by long-period ground motions. Soil Dynamics and Earthquake Engineering, 2010, 30, 968-980.	1.9	68
4	System identification of concrete gravity dams using artificial neural networks based on a hybrid finite element–boundary element approach. Engineering Structures, 2010, 32, 3583-3591.	2.6	63
5	A new bond-slip model for adhesive in CFRP–steel composite systems. Engineering Structures, 2012, 34, 447-454.	2.6	61
6	A coupled BE–FE study for evaluation of seismically isolated cylindrical liquid storage tanks considering fluid–structure interaction. Journal of Fluids and Structures, 2009, 25, 567-585.	1.5	57
7	Simulation of strong ground motion in northern Iran using the specific barrier model. Geophysical Journal International, 2012, 188, 645-679.	1.0	43
8	Application of genetic algorithm in crack detection of beam-like structures using a new cracked Euler–Bernoulli beam element. Applied Soft Computing Journal, 2013, 13, 867-880.	4.1	42
9	Analytical solutions for free and forced vibrations of a multiple cracked Timoshenko beam subject to a concentrated moving load. Acta Mechanica, 2011, 221, 79-97.	1.1	40
10	A dual reciprocity BEM approach using new Fourier radial basis functions applied to 2D elastodynamic transient analysis. Engineering Analysis With Boundary Elements, 2011, 35, 85-95.	2.0	35
11	First kind Bessel function (J-Bessel) as radial basis function for plane dynamic analysis using dual reciprocity boundary element method. Acta Mechanica, 2011, 218, 247-258.	1.1	32
12	A stochastic spectral finite element method for wave propagation analyses with medium uncertainties. Applied Mathematical Modelling, 2018, 63, 84-108.	2.2	29
13	Dynamic analysis of plane elasticity with new complex Fourier radial basis functions in the dual reciprocity boundary element method. Applied Mathematical Modelling, 2014, 38, 3641-3651.	2.2	28
14	Crack detection in a beam with an arbitrary number of transverse cracks using genetic algorithms. Journal of Mechanical Science and Technology, 2014, 28, 823-836.	0.7	28
15	A new semi-analytical method with diagonal coefficient matrices for potential problems. Engineering Analysis With Boundary Elements, 2011, 35, 845-854.	2.0	27
16	A hybrid distinct element–boundary element approach for seismic analysis of cracked concrete gravity dam–reservoir systems. Soil Dynamics and Earthquake Engineering, 2011, 31, 1347-1356.	1.9	26
17	Model updating of multistory shear buildings for simultaneous identification of mass, stiffness and damping matrices using two different soft-computing methods. Expert Systems With Applications, 2011, 38, 5320-5329.	4.4	24
18	New complex Fourier shape functions for the analysis of two-dimensional potential problems using boundary element method. Engineering Analysis With Boundary Elements, 2013, 37, 260-272.	2.0	23

#	Article	IF	Citations
19	Identification of multiple flaws in 2D structures using dynamic extended spectral finite element method with a universally enhanced meta-heuristic optimizer. Structural and Multidisciplinary Optimization, 2018, 57, 605-623.	1.7	20
20	A novel stochastic-spectral finite element method for analysis of elastodynamic problems in the time domain. Meccanica, 2016, 51, 893-920.	1.2	19
21	Stress Wave Propagation Analysis in One-Dimensional Micropolar Rods with Variable Cross-Section Using Micropolar Wave Finite Element Method. International Journal of Applied Mechanics, 2018, 10, 1850039.	1.3	18
22	A stochastic spectral finite element method for solution of faulting-induced wave propagation in materially random continua without explicitly modeled discontinuities. Computational Mechanics, 2019, 64, 1017-1048.	2.2	17
23	Analysis of elastostatic problems using a semi-analytical method with diagonal coefficient matrices. Engineering Analysis With Boundary Elements, 2011, 35, 1288-1296.	2.0	16
24	New Timoshenko-cracked beam element and crack detection in beam-like structures using genetic algorithm. Inverse Problems in Science and Engineering, 2014, 22, 359-382.	1.2	16
25	Modeling transient elastodynamic problems using a novel semi-analytical method yielding decoupled partial differential equations. Computer Methods in Applied Mechanics and Engineering, 2012, 213-216, 183-195.	3.4	15
26	New damage indices and algorithm based on square time-frequency distribution for damage detection in concrete piers of railroad bridges. Structural Control and Health Monitoring, 2015, 22, 91-106.	1.9	15
27	Complex Fourier element shape functions for analysis of 2D static and transient dynamic problems using dual reciprocity boundary element method. Engineering Analysis With Boundary Elements, 2018, 95, 222-237.	2.0	14
28	A semi-analytical method with a system of decoupled ordinary differential equations for three-dimensional elastostatic problems. International Journal of Solids and Structures, 2012, 49, 2528-2546.	1.3	13
29	Wave propagation in semi-infinite media with topographical irregularities using Decoupled Equations Method. Soil Dynamics and Earthquake Engineering, 2014, 65, 102-112.	1.9	13
30	Graph theoretical methods for efficient stochastic finite element analysis of structures. Computers and Structures, 2017, 178, 29-46.	2.4	13
31	Development of a new semi-analytical method in fracture mechanics problems based on the energy release rate. Acta Mechanica, 2016, 227, 3529-3547.	1.1	11
32	Deep convolutional generative adversarial networks for the generation of numerous artificial spectrumâ€compatible earthquake accelerograms using a limited number of ground motion records. Computer-Aided Civil and Infrastructure Engineering, 2023, 38, 225-240.	6.3	11
33	Wave propagation analysis of micropolar elastic beams using a novel micropolar wave finite element method. Mechanics of Advanced Materials and Structures, 2021, 28, 551-567.	1.5	10
34	Frequency domain analysis of elastic bounded domains using a new semi-analytical method. Acta Mechanica, 2013, 224, 1555-1570.	1.1	9
35	Development and application of a semi-analytical method with diagonal coefficient matrices for analysis of wave diffraction around vertical cylinders of arbitrary cross-sections. Ocean Engineering, 2015, 110, 292-302.	1.9	9
36	Identification of linear and non-linear physical parameters of multistory shear buildings using artificial neural network. Inverse Problems in Science and Engineering, 2015, 23, 670-687.	1.2	7

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37	A unified approach for stress wave propagation in transversely isotropic elastic and poroelastic layered media. Soil Dynamics and Earthquake Engineering, 2022, 157, 107152.	1.9	7
38	Time domain linear sampling method for qualitative identification of buried cavities from elastodynamic over-determined boundary data. Computers and Structures, 2015, 153, 36-48.	2.4	6
39	Determination of stress intensity factors of 2D fracture mechanics problems through a new semiâ€analytical method. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 467-478.	1.7	6
40	A new global nonreflecting boundary condition with diagonal coefficient matrices for analysis of unbounded media. Applied Mathematical Modelling, 2016, 40, 2845-2874.	2.2	6
41	Uncertainty analysis of elastostatic problems incorporating a new hybrid stochastic-spectral finite element method. Mechanics of Advanced Materials and Structures, 2017, 24, 1030-1042.	1.5	6
42	Development of a new semianalytical approach for 2D analysis of crack propagation problems. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1344-1363.	1.7	6
43	Decoupled scaled boundary finite element method for analysing damâ€"reservoir dynamic interaction. International Journal of Computer Mathematics, 2020, 97, 1725-1743.	1.0	6
44	Simulation of two-dimensional elastodynamic problems using a new adaptive physics-based method. Meccanica, 2014, 49, 1353-1366.	1.2	5
45	Adaptive Dynamic Surface Control of Boucâ€"Wen Hysteretic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	5
46	Seismic Analysis of Underground Spaces to Propagation of Seismic Waves (Case Study: Masjed) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	0.1	5
47	An analytical method for crack detection of Timoshenko beams with multiple open cracks using a test mass. European Journal of Environmental and Civil Engineering, 2017, 21, 24-41.	1.0	4
48	A Monte Carlo adapted finite element method for dislocation simulation of faults with uncertain geometry. Journal of Earth System Science, 2017, 126, 1.	0.6	4
49	Rocking forced displacement of a rigid disc embedded in a functionally graded transversely isotropic half-space. Mathematics and Mechanics of Solids, 2021, 26, 1029-1052.	1.5	4
50	Use of Ritz method for damage detection of reinforced and post-tensioned concrete beams. Construction and Building Materials, 2009, 23, 2167-2176.	3.2	3
51	Analysis of Elastic Pulse Dispersion in Periodically Layered Composite Rods using Wave Finite Element Method. International Journal of Applied Mechanics, 2021, 13, .	1.3	3
52	An adaptive cellular automata approach with the use of radial basis functions for the simulation of elastic wave propagation. Acta Mechanica, 2020, 231, 2723-2740.	1.1	2
53	Torsion vibration of foundation in a functionally graded transversely isotropic, linearly elastic half-space. Forces in Mechanics, 2022, 7, 100082.	1.3	2
54	Impedance functions of rigid rectangular foundations bonded on layered transversely isotropic elastic/poroelastic half-space. Engineering Analysis With Boundary Elements, 2022, 138, 423-438.	2.0	2

#	Article	IF	Citations
55	Cavity/Inclusion Detection in Plane Linear Elastic Bodies Using Linear Sampling Method. Journal of Nondestructive Evaluation, 2014, 33, 93.	1.1	1
56	Cavity detection in a heat conductor using linear sampling method. Heat and Mass Transfer, 2014, 50, 973-984.	1.2	1
57	A modified specific barrier model based on new time functions and approach for cracks location on the fault plane: application to the 2008 Iwate–Miyagi earthquake. Geophysical Journal International, 2021, 227, 76-98.	1.0	1
58	Dynamic Analysis of a Vertically Loaded Rigid Disc in a Functionally Graded Transversely Isotropic Half-Space. Transportation Infrastructure Geotechnology, 2023, 10, 660-684.	1.9	1