

Edson Denner Leonel

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

785
citations

516710

16
h-index

552781

26
g-index

57
all docs

57
docs citations

57
times ranked

472
citing authors

#	ARTICLE	IF	CITATIONS
1	Probabilistic models applied to safety assessment of reinforced concrete structures subjected to chloride ingress. <i>Engineering Failure Analysis</i> , 2013, 31, 76-89.	4.0	71
2	Multiple random crack propagation using a boundary element formulation. <i>Engineering Fracture Mechanics</i> , 2011, 78, 1077-1090.	4.3	62
3	On the performance of response surface and direct coupling approaches in solution of random crack propagation problems. <i>Structural Safety</i> , 2011, 33, 261-274.	5.3	53
4	Coupled reliability and boundary element model for probabilistic fatigue life assessment in mixed mode crack propagation. <i>International Journal of Fatigue</i> , 2010, 32, 1823-1834.	5.7	45
5	Nonlinear formulation based on FEM, Mazars damage criterion and Fick's law applied to failure assessment of reinforced concrete structures subjected to chloride ingress and reinforcements corrosion. <i>Engineering Failure Analysis</i> , 2014, 46, 247-268.	4.0	40
6	Failure analysis of punching in reinforced concrete flat slabs with openings adjacent to the column. <i>Engineering Structures</i> , 2019, 182, 331-343.	5.3	37
7	Probabilistic crack growth analyses using a boundary element model: Applications in linear elastic fracture and fatigue problems. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 944-959.	3.7	36
8	Non-linear boundary element formulation with tangent operator to analyse crack propagation in quasi-brittle materials. <i>Engineering Analysis With Boundary Elements</i> , 2010, 34, 122-129.	3.7	34
9	Cohesive crack growth modelling based on an alternative nonlinear BEM formulation. <i>Engineering Fracture Mechanics</i> , 2013, 111, 86-97.	4.3	32
10	An isogeometric boundary element approach for topology optimization using the level set method. <i>Applied Mathematical Modelling</i> , 2020, 84, 536-553.	4.2	27
11	Dual boundary element formulation applied to analysis of multi-fractured domains. <i>Engineering Analysis With Boundary Elements</i> , 2010, 34, 1092-1099.	3.7	26
12	Mechanical modelling of three-dimensional cracked structural components using the isogeometric dual boundary element method. <i>Applied Mathematical Modelling</i> , 2018, 63, 415-444.	4.2	25
13	A BEM model applied to failure analysis of multi-fractured structures. <i>Engineering Failure Analysis</i> , 2011, 18, 1538-1549.	4.0	23
14	The multiple fatigue crack propagation modelling in nonhomogeneous structures using the DBEM. <i>Engineering Analysis With Boundary Elements</i> , 2019, 98, 296-309.	3.7	23
15	Non-linear boundary element formulation applied to contact analysis using tangent operator. <i>Engineering Analysis With Boundary Elements</i> , 2011, 35, 1237-1247.	3.7	22
16	Cohesive crack propagation modelling in wood structures using BEM and the Tangent Operator Technique. <i>Engineering Analysis With Boundary Elements</i> , 2016, 64, 111-121.	3.7	20
17	Probabilistic failure modelling of reinforced concrete structures subjected to chloride penetration. <i>International Journal of Advanced Structural Engineering</i> , 2012, 4, 1.	1.3	16
18	An enriched dual boundary element method formulation for linear elastic crack propagation. <i>Engineering Analysis With Boundary Elements</i> , 2020, 121, 158-179.	3.7	16

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19	Quantification of cohesive fracture parameters based on the coupling of Bayesian updating and the boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2017, 74, 49-60.	3.7	15
20	Dual BEM Formulation Applied to Analysis of Multiple Crack Propagation. <i>Key Engineering Materials</i> , 2013, 560, 99-106.	0.4	14
21	Fatigue characteristics of modified asphalt binders using fracture mechanics. <i>Engineering Fracture Mechanics</i> , 2016, 154, 1-11.	4.3	14
22	Probabilistic mechanical modelling of concrete creep based on the boundary element method. <i>Advances in Structural Engineering</i> , 2019, 22, 337-348.	2.4	14
23	A BEM formulation applied in the mechanical material modelling of viscoelastic cracked structures. <i>International Journal of Advanced Structural Engineering</i> , 2017, 9, 1-12.	1.3	13
24	An improved computational framework based on the dual boundary element method for three-dimensional mixed-mode crack propagation analyses. <i>Advances in Engineering Software</i> , 2019, 135, 102689.	3.8	12
25	Boundary element method applied to topology optimization using the level set method and an alternative velocity regularization. <i>Meccanica</i> , 2019, 54, 549-563.	2.0	10
26	Boundary Element Method applied to decision-making problems involving geometric variabilities in topology optimization. <i>Engineering Analysis With Boundary Elements</i> , 2017, 85, 116-126.	3.7	9
27	A NURBS-discontinuous and enriched isogeometric boundary element formulation for two-dimensional fatigue crack growth. <i>Engineering Analysis With Boundary Elements</i> , 2022, 134, 259-281.	3.7	9
28	A comprehensive ductile damage model for 3D truss structures. <i>International Journal of Non-Linear Mechanics</i> , 2019, 112, 13-24.	2.6	8
29	The mechanical modelling of nonhomogeneous reinforced structural systems by a coupled BEM formulation. <i>Engineering Analysis With Boundary Elements</i> , 2019, 109, 1-18.	3.7	6
30	Three dimensional nonlinear BEM formulations for the mechanical analysis of nonhomogeneous reinforced structural systems. <i>Engineering Analysis With Boundary Elements</i> , 2021, 123, 200-219.	3.7	6
31	Nonlinear IGABEM formulations for the mechanical modelling of 3D reinforced structures. <i>Applied Mathematical Modelling</i> , 2022, 102, 62-100.	4.2	6
32	Topology optimization analysis based on the direct coupling of the boundary element method and the level set method. <i>International Journal of Advanced Structural Engineering</i> , 2017, 9, 397-407.	1.3	5
33	Time-Dependent Reliability of Reinforced Concrete Considering Chloride Penetration via Boundary Element Method. <i>Latin American Journal of Solids and Structures</i> , 2020, 17, .	1.0	4
34	Probabilistic corrosion time initiation modelling in reinforced concrete structures using the BEM. <i>Revista IBRACON De Estruturas E Materiais</i> , 2020, 13, .	0.6	4
35	Failure analysis of reinforced concrete structures subjected to chloride penetration and reinforcements corrosion. , 2016, , 93-121.		3
36	Constitutive relation error formalism applied to the solution of inverse problems using the BEM. <i>Engineering Analysis With Boundary Elements</i> , 2019, 108, 30-40.	3.7	2

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37	Subtraction singularity technique applied to the regularization of singular and hypersingular integrals in high-order curved boundary elements in plane anisotropic elasticity. <i>Engineering Analysis With Boundary Elements</i> , 2020, 119, 214-224.	3.7	2
38	Topology optimization and geometric nonlinear modeling using positional finite elements. <i>Optimization and Engineering</i> , 0, , 1.	2.4	2
39	Probabilistic fatigue crack growth using BEM and reliability algorithms. , 2011, , .		2
40	The fracture failure of three-dimensional concrete structures subjected to concentrated loadings using the Boundary Element Method. <i>Revista IBRACON De Estruturas E Materiais</i> , 2022, 15, .	0.6	2
41	A tool based on the linear elastic fracture mechanics to analyze the outputs of the linear amplitude sweep (LAS) test. <i>Construction and Building Materials</i> , 2020, 264, 120255.	7.2	1
42	Cohesive crack propagation using a boundary element formulation with a tangent operator. <i>WIT Transactions on Modelling and Simulation</i> , 2009, , .	0.0	1
43	The cover thickness design of concrete structures subjected to chloride ingress from RBDO solution technique. <i>Revista IBRACON De Estruturas E Materiais</i> , 2020, 13, .	0.6	1
44	Probabilistic chloride diffusion modelling in cracked concrete structures by transient BEM formulation. <i>Revista IBRACON De Estruturas E Materiais</i> , 2022, 15, .	0.6	1
45	One step forward towards the full integration of BEM and CAD software: An effective adaptive approach. <i>Engineering Analysis With Boundary Elements</i> , 2022, 143, 457-482.	3.7	1
46	BEM and Tangent Operator Technique Applied to Analysis of Contact Problems. <i>Key Engineering Materials</i> , 0, 618, 151-177.	0.4	0
47	An efficient mechanical-probabilistic approach for the collapse modelling of RC structures. <i>Revista IBRACON De Estruturas E Materiais</i> , 2019, 12, 386-397.	0.6	0
48	Reliability analysis of truss structures considering complete failure paths and using the FLHB model. <i>Revista IBRACON De Estruturas E Materiais</i> , 2021, 14, .	0.6	0
49	Boundary element formulation applied to multi-fractured bodies. <i>WIT Transactions on Modelling and Simulation</i> , 2006, , .	0.0	0
50	BEM formulation based on dipoles of stresses applied to crack growth modelling in quasi-brittle materials. , 2013, , .		0
51	MULTIPLE FATIGUE CRACK GROWTH MODELLING IN NONHOMOGENEOUS STRUCTURAL SYSTEMS USING THE DUAL BEM. , 2018, , .		0
52	The stress intensity factor assessment in three-dimensional problems by the displacement fitting technique and the dual Boundary Element Method. <i>Latin American Journal of Solids and Structures</i> , 2020, 17, .	1.0	0
53	A Boundary Element Formulation applied to Discontinuity Propagation in Quasi-Brittle Materials. , 0, , .		0
54	Boundary Element Formulation for Contact Analysis using a Tangent Operator. , 0, , .		0

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55	Coupling Boundary Element Reliability Algorithms applied to Probabilistic Analysis of Crack Propagation in Structures subject to Fatigue. , 0, , .		0