

Emad Gad

List of Publications by Year in descending order

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100
papers

1,247
citations

489802

18
h-index

488211

31
g-index

104
all docs

104
docs citations

104
times ranked

806
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast and Stable Circuit Simulation via Interpolation- Supported Numerical Inversion of the Laplace Transform. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 121-130.	1.4	5
2	Development of an Innovative Boltless Connection for Multistory Modular Buildings. Journal of Structural Engineering, 2022, 148, .	1.7	11
3	Low-Cost Error Estimation for Fast and Stable Circuit Simulation Using Modified Inversion of the Laplace Transform. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 1160-1170.	1.4	1
4	Fast and Stable Transient Simulation of Nonlinear Circuits Using the Numerical Inversion of the Laplace Transform. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 1171-1185.	1.4	2
5	Effect of fly ash and slag on properties of normal and high strength concrete including fracture energy by wedge splitting test: Experimental and numerical investigations. Construction and Building Materials, 2021, 271, 121553.	3.2	19
6	Parameterized Periodic Steady-State Analysis via Reduced-Order Modeling. IEEE Transactions on Microwave Theory and Techniques, 2021, , 1-1.	2.9	1
7	Simulation and Automated Modeling of Microwave Circuits: State-of-the-Art and Emerging Trends. IEEE Journal of Microwaves, 2021, 1, 494-507.	4.9	18
8	Fast and Stable Time-Domain Simulation Based on Modified Numerical Inversion of the Laplace Transform. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 848-858.	1.4	10
9	Distributed optical fibre sensor for condition monitoring of mining conveyor using wavelet transform and artificial neural network. Structural Control and Health Monitoring, 2021, 28, e2827.	1.9	8
10	Adverse effect of too-small edge distances on tensile capacity of screw anchors. Australian Journal of Structural Engineering, 2020, 21, 94-106.	0.4	3
11	Review of performance requirements for inter-module connections in multi-story modular buildings. Journal of Building Engineering, 2020, 28, 101087.	1.6	50
12	Effect of thread profile on tensile performance of screw anchors in non-cracked concrete. Construction and Building Materials, 2020, 237, 117565.	3.2	7
13	DC-Centric Parameterized Reduced-Order Model via Moment-Based Interpolation Projection (MIP) Algorithm. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1348-1357.	1.4	2
14	Effect of Infill-Wall Material Types and Modeling Techniques on the Seismic Response of Reinforced Concrete Buildings. Natural Hazards Review, 2020, 21, .	0.8	15
15	Investigations of Early Age Material Properties of Normal and High Strength Concrete Including Fracture Energy. Lecture Notes in Civil Engineering, 2020, , 315-326.	0.3	0
16	Performance of driven battered mini-pile group against expansive soil induced ground movement. E3S Web of Conferences, 2020, 195, 01030.	0.2	0
17	High-Order Unconditionally Stable Time-Domain Finite-Element Method. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1775-1779.	2.4	2
18	Determination of contact force by compression testing of cylindrical specimens. MethodsX, 2019, 6, 1957-1966.	0.7	1

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19	Effect of seismic and soil parameter uncertainties on seismic damage of buried segmented pipeline. <i>Transportation Geotechnics</i> , 2019, 21, 100274.	2.0	18
20	Contact force generated by impact of boulder on concrete surface. <i>International Journal of Impact Engineering</i> , 2019, 132, 103324.	2.4	9
21	Application of stress wave propagation technique for condition assessment of timber poles. <i>Structure and Infrastructure Engineering</i> , 2019, 15, 1234-1246.	2.0	14
22	Behaviour of plasterboard-lined steel-framed ceiling diaphragms. <i>Thin-Walled Structures</i> , 2019, 141, 1-14.	2.7	5
23	3D Collapse Simulation of Concrete-Filled Steel Tube Columns through Multi-Axis Cyclic and Hybrid Simulation. , 2019, , .		0
24	Effect of hysteretic steel damper uncertainty on seismic performance of steel buildings. <i>Journal of Constructional Steel Research</i> , 2019, 157, 46-58.	1.7	8
25	Efficient Steady-State Simulation of Switching Power Converter Circuits. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019, 9, 1328-1336.	1.4	2
26	The Influence of Key Design Parameters on the Cyclic Axial Behavior of Innovative Replaceable Buckling Restrained Fuses (RBRFs). <i>Journal of Earthquake Engineering</i> , 2019, 23, 1092-1114.	1.4	5
27	Rocking Behavior of Irregular Free-Standing Objects Subjected to Earthquake Motion. <i>Journal of Earthquake Engineering</i> , 2019, 23, 793-809.	1.4	13
28	Probabilistic modelling of forces of hail. <i>Natural Hazards</i> , 2018, 91, 133-153.	1.6	11
29	Numerical study on the effects of diaphragm stiffness and strength on the seismic response of multi-story modular buildings. <i>Engineering Structures</i> , 2018, 163, 25-37.	2.6	63
30	Dynamic loading on a prefabricated modular unit of a building during road transportation. <i>Journal of Building Engineering</i> , 2018, 18, 260-269.	1.6	34
31	Probabilistic modelling of Hertzian fracture of glass by flying objects impact in bad weather. <i>International Journal of Impact Engineering</i> , 2018, 118, 11-23.	2.4	9
32	Displacement-Based Approach for the Assessment of Overturning Stability of Rectangular Rigid Barriers Subjected to Point Impact. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, .	1.6	18
33	High-order unconditionally stable time-domain finite element method. , 2018, , .		1
34	Sub-assembly low damage connection incorporating blind-bolts and RBRFs subjected to cyclic loading. <i>Journal of Constructional Steel Research</i> , 2018, 151, 280-296.	1.7	6
35	A note on Hunt and Crossley model with generalized visco-elastic damping. <i>International Journal of Impact Engineering</i> , 2018, 121, 151-156.	2.4	19
36	Computer Simulation of Contact Forces Generated by Impact. <i>International Journal of Structural Stability and Dynamics</i> , 2017, 17, 1750005.	1.5	13

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37	Seismic Performance Behavior of Cold-Formed Steel Wall Panels by Quasi-static Tests and Incremental Dynamic Analyses. Journal of Earthquake Engineering, 2017, 21, 411-438.	1.4	11
38	Parallel High-Order Envelope-Following Method for Fast Transient Analysis of Highly Oscillatory Circuits. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 261-270.	2.1	3
39	Damage modelling of aluminium panels impacted by windborne debris. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 165, 1-12.	1.7	15
40	Use of static tests for predicting damage to cladding panels caused by storm debris. Journal of Building Engineering, 2017, 12, 109-117.	1.6	8
41	Risks of failure of annealed glass panels subject to point contact actions. International Journal of Solids and Structures, 2017, 129, 177-194.	1.3	14
42	Group Behavior of Double-Headed Anchored Blind Bolts within Concrete-Filled Circular Hollow Sections under Cyclic Loading. Journal of Structural Engineering, 2017, 143, .	1.7	17
43	Seismic assessment of cold-formed steel stud bracing wall panels using direct displacement based design approach. Bulletin of Earthquake Engineering, 2017, 15, 1261-1277.	2.3	10
44	Anchored blind bolted composite connection to a concrete filled steel tubular column. Steel and Composite Structures, 2017, 23, 115-130.	1.3	5
45	Interaction analysis of waffle slabs supporting houses on expansive soil. Innovative Infrastructure Solutions, 2016, 1, 1.	1.1	0
46	Deterministic solutions for contact force generated by impact of windborne debris. International Journal of Impact Engineering, 2016, 91, 126-141.	2.4	34
47	Tensile Behavior of Groups of Anchored Blind Bolts within Concrete-Filled Steel Square Hollow Sections. Journal of Structural Engineering, 2016, 142, .	1.7	29
48	Tensile behaviour of anchored blind bolts in concrete filled square hollow sections. Materials and Structures/Materiaux Et Constructions, 2016, 49, 1511-1525.	1.3	35
49	Contact forces generated by hailstone impact. International Journal of Impact Engineering, 2015, 84, 145-158.	2.4	43
50	Message from Editors. Australian Journal of Structural Engineering, 2015, 16, 179-179.	0.4	0
51	Statistical analysis of intermodulation distortion in RF circuits using decoupled polynomial chaos. , 2015, , .		0
52	Statistical analysis via generalized decoupled polynomial chaos. , 2015, , .		1
53	Fast Variability Analysis of General Nonlinear Circuits Using Decoupled Polynomial Chaos. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 1860-1871.	1.4	5
54	Formulation of the Obreshkov-Based Transient Circuit Simulator in the Presence of Nonlinear Memory Elements. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 86-94.	1.9	0

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55	AN INNOVATIVE PROCEDURE FOR ESTIMATING CONTACT FORCE DURING IMPACT. International Journal of Applied Mechanics, 2014, 06, 1450079.	1.3	7
56	Generalized Hermite Polynomial Chaos for Variability Analysis of Macromodels Embedded in Nonlinear Circuits. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 673-684.	1.4	62
57	High Order and A-Stable Envelope Following Method for Transient Simulations of Oscillatory Circuits. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3309-3317.	2.9	5
58	Fast variability analysis of general nonlinear circuits using decoupled polynomial chaos. , 2014, , .		10
59	High order Envelope Following method for parallel simulation of Power Converter circuits. , 2014, , .		7
60	Accelerated Harmonic-Balance Analysis Using a Graphical Processing Unit Platform. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2014, 33, 1017-1030.	1.9	2
61	Efficient statistical analysis of microwave circuits using decoupled polynomial chaos. , 2014, , .		0
62	Decoupled Polynomial Chaos and Its Applications to Statistical Analysis of High-Speed Interconnects. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 1634-1647.	1.4	53
63	High-order envelope following method for accurate transient analysis of almost periodic electrical circuits. , 2014, , .		3
64	Effect of Fabrication Method on Thermo-mechanical Properties of an Epoxy Composite. Journal of Adhesion, 2014, 90, 368-383.	1.8	7
65	A multi-reference-based mode selection approach for the implementation of NEXt-ERA in modal-based damage detection. Structural Control and Health Monitoring, 2014, 21, 1137-1153.	1.9	14
66	Parallel Simulation of Large Linear Circuits With Nonlinear Terminations Using High-Order Stable Methods. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 1201-1211.	1.4	2
67	Contact forces generated by fallen debris. Structural Engineering and Mechanics, 2014, 50, 589-603.	1.0	16
68	Efficient Hermite-based variability analysis using approximate decoupling technique. , 2013, , .		6
69	Fast Simulation of Microwave Circuits With Nonlinear Terminations Using High-Order Stable Methods. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 360-371.	2.9	7
70	New Method for Fast Transient Simulation of Large Linear Circuits Using High-Order Stable Methods. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 661-669.	1.4	7
71	SIMPLIFIED ANALYSIS OF LOW VELOCITY IMPACT ACTIONS ON SHALLOW DOMES. International Journal of Applied Mechanics, 2013, 05, 1350013.	1.3	6
72	Stability analysis of BLDC motor speed controllers under the presence of time delays in the control loop. , 2013, , .		7

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73	Protocol for testing of cold-formed steel wall in regions of low-moderate seismicity. Earthquake and Structures, 2013, 4, 629-647.	1.0	3
74	A Simple Model for Estimating Shocks in Unrestrained Building Contents in an Earthquake. Journal of Earthquake Engineering, 2013, 17, 1126-1140.	1.4	3
75	High-Order A -Stable and L -Stable State-Space Discrete Modeling of Continuous Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 346-359.	3.5	6
76	Efficient transient simulation of transmission lines and distributed circuits using high-order stable methods. , 2012, , .		4
77	An efficient method for transient simulation of high-speed interconnects with nonlinear terminations. , 2012, , .		0
78	A multi-core high-order A -stable and L -stable integration method for fast transient simulation of high-speed interconnect and transmission line circuits. , 2012, , .		1
79	Structural Characterization and Efficient Implementation Techniques for A -Stable High-Order Integration Methods. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2012, 31, 101-108.	1.9	23
80	A numerical simulation of the blast impact of square metallic sandwich panels. International Journal of Impact Engineering, 2009, 36, 687-699.	2.4	125
81	A -Stable and L -Stable High-Order Integration Methods for Solving Stiff Differential Equations. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2009, 28, 1359-1372.	1.9	30
82	Passivity Compensation Algorithm for Method-of-Characteristics-Based Multiconductor Transmission Line Interconnect Macromodels. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2009, 17, 1061-1072.	2.1	16
83	Circuit-Based Analysis of Electromagnetic Field Coupling With Nonuniform Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 149-165.	1.4	10
84	A Robust Algorithm for Passive Reduced-Order Macromodeling of MTLs With FD-PUL Parameters Using Integrated Congruence Transform. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2008, 27, 574-578.	1.9	4
85	Scalable parallel matrix solver for steady state analysis of large nonlinear circuits. , 2008, , .		2
86	Experimental and Numerical Investigation of the Tensile Behavior of Blind-Bolted T-Stub Connections to Concrete-Filled Circular Columns. Journal of Structural Engineering, 2008, 134, 198-208.	1.7	72
87	High-Order Passive Delay-Based Macromodel for MTLs via Symplectic Integrators. IEEE Microwave and Wireless Components Letters, 2008, 18, 227-229.	2.0	0
88	A Passive Macromodeling Technique for Nonuniform Transmission Lines based on Delay Extraction via the Theory of Lie Algebra and Lie Groups. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	0
89	Passivity Verification in Delay-Based Macromodels of Multiconductor Electrical Interconnects. IEEE Transactions on Advanced Packaging, 2007, 30, 246-256.	1.7	26
90	Passive Order Reduction for RLC Circuits With Delay Elements. IEEE Transactions on Advanced Packaging, 2007, 30, 830-840.	1.7	31

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91	A Wavelet-Based Approach for Steady-State Analysis of Nonlinear Circuits With Widely Separated Time Scales. IEEE Microwave and Wireless Components Letters, 2007, 17, 451-453.	2.0	8
92	Model-order reduction of frequency-dependent interconnects based on integrated congruence transform. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	1
93	Analysis of Frequency-Dependent Interconnects Using Integrated Congruence Transform. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2007, 26, 1139-1149.	1.9	7
94	Passivity Enforcement for Method of Characteristics-based Multiconductor Transmission Line Macromodels. , 2007, , .		7
95	An absolutely-stable arbitrarily high-order implicit numerical integration method and its application to the time-domain simulation of interconnect circuits. , 2007, , .		1
96	A Passive Model-Order Reduction Algorithm for RLC Networks with Embedded Delay Elements. , 2006, , .		0
97	A Projection-Based Reduction Approach to Computing Sensitivity of Steady-State Response of Nonlinear Circuits. INFORMS Journal on Computing, 2006, 18, 173-185.	1.0	1
98	Model order reduction of nonuniform transmission lines using integrated congruence transform. , 2003, , .		6
99	Passive model order reduction of multiport distributed interconnects. , 2000, , .		5
100	Product performance - a review of construction product conformity assessment. Australian Journal of Structural Engineering, 0, , 1-7.	0.4	0