

Mohamed Abdelsabour Fahmy

List of Publications by Year in descending order

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papers

1,293
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279487

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61
all docs

61
docs citations

61
times ranked

188
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal stresses in a rotating non-homogeneous orthotropic hollow cylinder. Heat and Mass Transfer, 2002, 39, 41-46.	1.2	68
2	Magneto-thermoelastic problem in non-homogeneous isotropic cylinder. Heat and Mass Transfer, 2003, 39, 625-629.	1.2	55
3	A time-stepping DRBEM for the transient magneto-thermo-visco-elastic stresses in a rotating non-homogeneous anisotropic solid. Engineering Analysis With Boundary Elements, 2012, 36, 335-345.	2.0	50
4	A TIME-STEPPING DRBEM FOR MAGNETO-THERMO-VISCOELASTIC INTERACTIONS IN A ROTATING NONHOMOGENEOUS ANISOTROPIC SOLID. International Journal of Applied Mechanics, 2011, 03, 711-734.	1.3	49
5	Boundary Element Algorithm for Modeling and Simulation of Dual-Phase Lag Bioheat Transfer and Biomechanics of Anisotropic Soft Tissues. International Journal of Applied Mechanics, 2018, 10, 1850108.	1.3	49
6	Boundary element modeling and simulation of biothermomechanical behavior in anisotropic laser-induced tissue hyperthermia. Engineering Analysis With Boundary Elements, 2019, 101, 156-164.	2.0	47
7	The effect of initial stress and inhomogeneity on the thermoelastic stresses in a rotating anisotropic solid. Archive of Applied Mechanics, 2008, 78, 431-442.	1.2	44
8	A new LRBFCM-GBEM modeling algorithm for general solution of time fractional-order dual phase lag bioheat transfer problems in functionally graded tissues. Numerical Heat Transfer; Part A: Applications, 2019, 75, 616-626.	1.2	44
9	Transient magneto-thermoviscoelastic plane waves in a non-homogeneous anisotropic thick strip subjected to a moving heat source. Applied Mathematical Modelling, 2012, 36, 4565-4578.	2.2	43
10	Generalized Magneto-Thermo-Viscoelastic Problems of Rotating Functionally Graded Anisotropic Plates by the Dual Reciprocity Boundary Element Method. Journal of Thermal Stresses, 2013, 36, 284-303.	1.1	43
11	Implicit-explicit time integration DRBEM for generalized magneto-thermoelasticity problems of rotating anisotropic viscoelastic functionally graded solids. Engineering Analysis With Boundary Elements, 2013, 37, 107-115.	2.0	43
12	Shape design sensitivity and optimization for two-temperature generalized magneto-thermoelastic problems using time-domain DRBEM. Journal of Thermal Stresses, 2018, 41, 119-138.	1.1	43
13	The Effect of Rotation and Inhomogeneity on the Transient Magneto-Thermoviscoelastic Stresses in an Anisotropic Solid. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	1.1	40
14	Transient Magneto-Thermo-Elastic Stresses in an Anisotropic Viscoelastic Solid with and Without a Moving Heat Source. Numerical Heat Transfer; Part A: Applications, 2012, 61, 633-650.	1.2	40
15	Self organizing maps for the parametric analysis of COVID-19 SEIRS delayed model. Chaos, Solitons and Fractals, 2021, 150, 111202.	2.5	40
16	Shape design sensitivity and optimization of anisotropic functionally graded smart structures using bicubic B-splines DRBEM. Engineering Analysis With Boundary Elements, 2018, 87, 27-35.	2.0	39
17	Magneto-thermo-elastic problem of a rotating nonhomogeneous anisotropic solid cylinder. Archive of Applied Mechanics, 2008, 78, 135-148.	1.2	38
18	A Three-Dimensional Generalized Magneto-Thermo-Viscoelastic Problem of a Rotating Functionally Graded Anisotropic Solids with and Without Energy Dissipation. Numerical Heat Transfer; Part A: Applications, 2013, 63, 713-733.	1.2	38

#	ARTICLE	IF	CITATIONS
19	A Computerized DRBEM model for generalized magneto-thermo-visco-elastic stress waves in functionally graded anisotropic thin film/substrate structures. Latin American Journal of Solids and Structures, 2014, 11, 386-409.	0.6	34
20	Design optimization for a simulation of rotating anisotropic viscoelastic porous structures using time-domain QQBEM. Mathematics and Computers in Simulation, 2019, 166, 193-205.	2.4	32
21	Thermoelastic Stresses in a Rotating Non-Homogeneous Anisotropic Body. Numerical Heat Transfer; Part A: Applications, 2008, 53, 1001-1011.	1.2	31
22	Modeling and Optimization of Anisotropic Viscoelastic Porous Structures Using CQBEM and Moving Asymptotes Algorithm. Arabian Journal for Science and Engineering, 2019, 44, 1671-1684.	1.7	30
23	A new boundary element algorithm for a general solution of nonlinear space-time fractional dual-phase-lag bio-heat transfer problems during electromagnetic radiation. Case Studies in Thermal Engineering, 2021, 25, 100918.	2.8	28
24	NUMERICAL MODELING OF TRANSIENT MAGNETO-THERMO-VISCOELASTIC WAVES IN A ROTATING NONHOMOGENEOUS ANISOTROPIC SOLID UNDER INITIAL STRESS. International Journal of Modeling, Simulation, and Scientific Computing, 2012, 03, 1250002.	0.9	26
25	Transient magneto-thermo-viscoelastic stresses in a rotating nonhomogeneous anisotropic solid with and without a moving heat source. Journal of Engineering Physics and Thermophysics, 2012, 85, 950-958.	0.2	26
26	A new boundary element strategy for modeling and simulation of three-temperature nonlinear generalized micropolar-magneto-thermoelastic wave propagation problems in FGA structures. Engineering Analysis With Boundary Elements, 2019, 108, 192-200.	2.0	25
27	Boundary element modeling of fractional nonlinear generalized photothermal stress wave propagation problems in FG anisotropic smart semiconductors. Engineering Analysis With Boundary Elements, 2022, 134, 665-679.	2.0	21
28	Boundary Element Algorithm for Nonlinear Modeling and Simulation of Three-Temperature Anisotropic Generalized Micropolar Piezothermoelasticity with Memory-Dependent Derivative. International Journal of Applied Mechanics, 2020, 12, 2050027.	1.3	19
29	3D Boundary Element Model for Ultrasonic Wave Propagation Fractional Order Boundary Value Problems of Functionally Graded Anisotropic Fiber-Reinforced Plates. Fractal and Fractional, 2022, 6, 247.	1.6	18
30	A new convolution variational boundary element technique for design sensitivity analysis and topology optimization of anisotropic thermo-poroelastic structures. Arab Journal of Basic and Applied Sciences, 2020, 27, 1-12.	1.0	17
31	Boundary element modeling of 3D nonlinear transient magneto-thermoviscoelastic wave propagation problems in anisotropic circular cylindrical shells. Composite Structures, 2021, 277, 114655.	3.1	16
32	Boundary Element and Sensitivity Analysis of Anisotropic Thermoelastic Metal and Alloy Discs with Holes. Materials, 2022, 15, 1828.	1.3	16
33	Fractional boundary element solution of three-temperature thermoelectric problems. Scientific Reports, 2022, 12, 6760.	1.6	16
34	Boundary Element Modeling for Simulation and Optimization of Three-Temperature Anisotropic Micropolar Magneto-thermoviscoelastic Problems in Porous Smart Structures Using NURBS and Genetic Algorithm. International Journal of Thermophysics, 2021, 42, 1.	1.0	14
35	A new boundary element algorithm for modeling and simulation of nonlinear thermal stresses in micropolar FGA composites with temperature-dependent properties. Advanced Modeling and Simulation in Engineering Sciences, 2021, 8, .	0.7	12
36	Influence of Inhomogeneity and Initial Stress on the Transient Magneto-Thermo-Visco-Elastic Stress Waves in an Anisotropic Solid. World Journal of Mechanics, 2011, 01, 256-265.	0.1	11

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37	A New BEM for Fractional Nonlinear Generalized Porothermoelastic Wave Propagation Problems. Computers, Materials and Continua, 2021, 68, 59-76.	1.5	10
38	A new boundary element formulation for modeling and simulation of three-temperature distributions in carbon nanotube fiber reinforced composites with inclusions. Mathematical Methods in the Applied Sciences, 0, , .	1.2	10
39	Range of Applying the Boundary Condition at Fluid/Porous Interface and Evaluation of Beavers and Joseph's Slip Coefficient Using Finite Element Method. Computation, 2020, 8, 14.	1.0	9
40	A Novel BEM for Modeling and Simulation of 3T Nonlinear Generalized Anisotropic Micropolar-Thermoelasticity Theory with Memory Dependent Derivative. CMES - Computer Modeling in Engineering and Sciences, 2021, 126, 175-199.	0.8	9
41	Boundary element analysis of rotating functionally graded anisotropic fiber-reinforced magneto-thermoelastic composites. Open Engineering, 2022, 12, 313-322.	0.7	8
42	A Time-Stepping DRBEM for 3D Anisotropic Functionally Graded Piezoelectric Structures Under the Influence of Gravitational Waves. Sustainable Civil Infrastructures, 2018, , 350-365.	0.1	7
43	3D DRBEM MODELING FOR ROTATING INITIALLY STRESSED ANISOTROPIC FUNCTIONALLY GRADED PIEZOELECTRIC PLATES. , 2016, , .		6
44	A Computational Model for Nonlinear Biomechanics Problems of FGA Biological Soft Tissues. Applied Sciences (Switzerland), 2022, 12, 7174.	1.3	6
45	A computerized boundary element model for simulation and optimization of fractional-order three temperatures nonlinear generalized piezothermoelastic problems based on genetic algorithm. AIP Conference Proceedings, 2019, , .	0.3	5
46	A New BEM Modeling Algorithm for Size-Dependent Thermopiezoelectric Problems in Smart Nanostructures. Computers, Materials and Continua, 2021, 69, 931-944.	1.5	5
47	XAI hybrid multi-staged algorithm for routine & quantum boosted oncological medical imaging. Computational Particle Mechanics, 2023, 10, 209-219.	1.5	5
48	Optimization of tank engine crank shaft material properties. Mechanics Based Design of Structures and Machines, 2023, 51, 3066-3082.	3.4	3
49	A New Computerized Boundary Element Algorithm for Cancer Modeling of Cardiac Anisotropy on the ECG Simulation. Asian Journal of Research in Computer Science, 0, , 1-10.	0.0	3
50	A new BEM for modeling and simulation of 3T MDD laser-generated ultrasound stress waves in FGA smart materials. Computer Methods in Materials Science, 2021, 21, .	0.2	1
51	A Novel MDD-Based BEM Model for Transient 3T Nonlinear Thermal Stresses in FGA Smart Structures. , 2020, , .		0
52	Boundary Element Modeling and Optimization of Three Temperature Nonlinear Fractional Generalized Photo-Thermoelastic Interaction in Anisotropic Semiconductor Structures. , 0, , .		0
53	Boundary Element Mathematical Modelling and Boundary Element Numerical Techniques for Optimization of Micropolar Thermoviscoelastic Problems in Solid Deformable Bodies. , 0, , .		0
54	Boundary Element Model for Nonlinear Fractional-Order Heat Transfer in Magneto-Thermoelastic FGA Structures Involving Three Temperatures. , 0, , .		0

#	ARTICLE	IF	CITATIONS
55	A New Computerized Boundary Element Model for Three-Temperature Nonlinear Generalized Thermoelastic Stresses in Anisotropic Circular Cylindrical Plate Structures. , 2020, , .		0
56	A New BEM for Modeling of Acoustic Wave Propagation in Three-Temperature Nonlinear Generalized Magneto-Thermoelastic ISMFGA Structures Using Laser Ultrasonics. , 0, , .		0
57	A New Boundary Element Formulation for Modeling and Optimization of Three-Temperature Nonlinear Generalized Magneto-Thermoelastic Problems of FGA Composite Microstructures. , 0, , .		0
58	Boundary Element Modeling and Simulation Algorithm for Fractional Bio-Thermomechanical Problems of Anisotropic Soft Tissues. , 0, , .		0
59	A New BEM for Modeling and Simulation of Laser Generated Ultrasound Waves in 3T Fractional Nonlinear Generalized Micropolar Poro-Thermoelastic FGA Structures. , 0, , .		0
60	A New BEM for Modeling and Optimization of 3T Fractional Nonlinear Generalized Magneto-Thermoelastic Multi-Material ISMFGA Structures Subjected to Moving Heat Source. , 0, , .		0