

# Mohamed Abdelsabour Fahmy

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

726  
citations

18  
h-index

24  
g-index

61  
ext. papers

1,075  
ext. citations

2.6  
avg, IF

5.85  
L-index

#	Paper	IF	Citations
45	Boundary element modeling of fractional nonlinear generalized photothermal stress wave propagation problems in FG anisotropic smart semiconductors. <i>Engineering Analysis With Boundary Elements</i> , <b>2022</b> , 134, 665-679	2.6	7
44	Boundary Element and Sensitivity Analysis of Anisotropic Thermoelastic Metal and Alloy Discs with Holes.. <i>Materials</i> , <b>2022</b> , 15,	3.5	5
43	Boundary element analysis of rotating functionally graded anisotropic fiber-reinforced magneto-thermoelastic composites. <i>Open Engineering</i> , <b>2022</b> , 12, 313-322	1.7	2
42	Fractional boundary element solution of three-temperature thermoelectric problems.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6760	4.9	3
41	3D Boundary Element Model for Ultrasonic Wave Propagation Fractional Order Boundary Value Problems of Functionally Graded Anisotropic Fiber-Reinforced Plates. <i>Fractal and Fractional</i> , <b>2022</b> , 6, 247	3	5
40	A new boundary element algorithm for modeling and simulation of nonlinear thermal stresses in micropolar FGA composites with temperature-dependent properties. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , <b>2021</b> , 8,	2.7	6
39	A new boundary element algorithm for a general solution of nonlinear space-time fractional dual-phase-lag bio-heat transfer problems during electromagnetic radiation. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 25, 100918	5.6	15
38	A New BEM Modeling Algorithm for Size-Dependent Thermopiezoelectric Problems in Smart Nanostructures. <i>Computers, Materials and Continua</i> , <b>2021</b> , 69, 931-944	3.9	4
37	Boundary Element Modeling for Simulation and Optimization of Three-Temperature Anisotropic Micropolar Magneto-thermoviscoelastic Problems in Porous Smart Structures Using NURBS and Genetic Algorithm. <i>International Journal of Thermophysics</i> , <b>2021</b> , 42, 1	2.1	9
36	A New BEM for Fractional Nonlinear Generalized Porothermoelastic Wave Propagation Problems. <i>Computers, Materials and Continua</i> , <b>2021</b> , 68, 59-76	3.9	8
35	Self organizing maps for the parametric analysis of COVID-19 SEIRS delayed model. <i>Chaos, Solitons and Fractals</i> , <b>2021</b> , 150, 111202	9.3	22
34	Boundary element modeling of 3D nonlinear transient magneto-thermoviscoelastic wave propagation problems in anisotropic circular cylindrical shells. <i>Composite Structures</i> , <b>2021</b> , 277, 114655	5.3	9
33	A Novel BEM for Modeling and Simulation of 3T Nonlinear Generalized Anisotropic Micropolar-Thermoelasticity Theory with Memory Dependent Derivative. <i>CMES - Computer Modeling in Engineering and Sciences</i> , <b>2021</b> , 126, 175-199	1.7	7
32	Boundary Element Algorithm for Nonlinear Modeling and Simulation of Three-Temperature Anisotropic Generalized Micropolar Piezothermoelasticity with Memory-Dependent Derivative. <i>International Journal of Applied Mechanics</i> , <b>2020</b> , 12, 2050027	2.4	15
31	Range of Applying the Boundary Condition at Fluid/Porous Interface and Evaluation of Beavers and Joseph Slip Coefficient Using Finite Element Method. <i>Computation</i> , <b>2020</b> , 8, 14	2.2	2
30	A new convolution variational boundary element technique for design sensitivity analysis and topology optimization of anisotropic thermo-poroelastic structures. <i>Arab Journal of Basic and Applied Sciences</i> , <b>2020</b> , 27, 1-12	2.9	6
29	A new boundary element strategy for modeling and simulation of three-temperature nonlinear generalized micropolar-magneto-thermoelastic wave propagation problems in FGA structures. <i>Engineering Analysis With Boundary Elements</i> , <b>2019</b> , 108, 192-200	2.6	15

28	Boundary element modeling and simulation of biothermomechanical behavior in anisotropic laser-induced tissue hyperthermia. <i>Engineering Analysis With Boundary Elements</i> , <b>2019</b> , 101, 156-164	2.6	26
27	A new LRBFCM-GBEM modeling algorithm for general solution of time fractional-order dual phase lag bioheat transfer problems in functionally graded tissues. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2019</b> , 75, 616-626	2.3	25
26	Design optimization for a simulation of rotating anisotropic viscoelastic porous structures using time-domain QBEM. <i>Mathematics and Computers in Simulation</i> , <b>2019</b> , 166, 193-205	3.3	15
25	Modeling and Optimization of Anisotropic Viscoelastic Porous Structures Using CQBEM and Moving Asymptotes Algorithm. <i>Arabian Journal for Science and Engineering</i> , <b>2019</b> , 44, 1671-1684	2.5	17
24	Shape design sensitivity and optimization of anisotropic functionally graded smart structures using bicubic B-splines DRBEM. <i>Engineering Analysis With Boundary Elements</i> , <b>2018</b> , 87, 27-35	2.6	25
23	Shape design sensitivity and optimization for two-temperature generalized magneto-thermoelastic problems using time-domain DRBEM. <i>Journal of Thermal Stresses</i> , <b>2018</b> , 41, 119-138	2.2	24
22	A Time-Stepping DRBEM for 3D Anisotropic Functionally Graded Piezoelectric Structures Under the Influence of Gravitational Waves. <i>Sustainable Civil Infrastructures</i> , <b>2018</b> , 350-365	0.2	0
21	Boundary Element Algorithm for Modeling and Simulation of Dual-Phase Lag Bioheat Transfer and Biomechanics of Anisotropic Soft Tissues. <i>International Journal of Applied Mechanics</i> , <b>2018</b> , 10, 1850108	2.4	29
20	A Computerized DRBEM model for generalized magneto-thermo-visco-elastic stress waves in functionally graded anisotropic thin film/substrate structures. <i>Latin American Journal of Solids and Structures</i> , <b>2014</b> , 11, 386-409	1.4	16
19	A Three-Dimensional Generalized Magneto-Thermo-Viscoelastic Problem of a Rotating Functionally Graded Anisotropic Solids with and Without Energy Dissipation. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2013</b> , 63, 713-733	2.3	22
18	Generalized Magneto-Thermo-Viscoelastic Problems of Rotating Functionally Graded Anisotropic Plates by the Dual Reciprocity Boundary Element Method. <i>Journal of Thermal Stresses</i> , <b>2013</b> , 36, 284-303	2.2	24
17	Implicit-explicit time integration DRBEM for generalized magneto-thermoelasticity problems of rotating anisotropic viscoelastic functionally graded solids. <i>Engineering Analysis With Boundary Elements</i> , <b>2013</b> , 37, 107-115	2.6	25
16	A time-stepping DRBEM for the transient magneto-thermo-visco-elastic stresses in a rotating non-homogeneous anisotropic solid. <i>Engineering Analysis With Boundary Elements</i> , <b>2012</b> , 36, 335-345	2.6	30
15	Transient magneto-thermo-viscoelastic stresses in a rotating nonhomogeneous anisotropic solid with and without a moving heat source. <i>Journal of Engineering Physics and Thermophysics</i> , <b>2012</b> , 85, 950-958	0.6	12
14	Transient magneto-thermoviscoelastic plane waves in a non-homogeneous anisotropic thick strip subjected to a moving heat source. <i>Applied Mathematical Modelling</i> , <b>2012</b> , 36, 4565-4578	4.5	24
13	Transient Magneto-Thermo-Elastic Stresses in an Anisotropic Viscoelastic Solid with and Without a Moving Heat Source. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2012</b> , 61, 633-650	2.3	23
12	The Effect of Rotation and Inhomogeneity on the Transient Magneto-Thermoviscoelastic Stresses in an Anisotropic Solid. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2012</b> , 79,	2.7	22
11	NUMERICAL MODELING OF TRANSIENT MAGNETO-THERMO-VISCOELASTIC WAVES IN A ROTATING NONHOMOGENEOUS ANISOTROPIC SOLID UNDER INITIAL STRESS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , <b>2012</b> , 03, 1250002	0.8	11

10	Influence of Inhomogeneity and Initial Stress on the Transient Magneto-Thermo-Visco-Elastic Stress Waves in an Anisotropic Solid. <i>World Journal of Mechanics</i> , <b>2011</b> , 01, 256-265	0.3	7
9	A TIME-STEPPING DRBEM FOR MAGNETO-THERMO-VISCOELASTIC INTERACTIONS IN A ROTATING NONHOMOGENEOUS ANISOTROPIC SOLID. <i>International Journal of Applied Mechanics</i> , <b>2011</b> , 03, 711-734	2.4	29
8	Thermoelastic Stresses in a Rotating Non-Homogeneous Anisotropic Body. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2008</b> , 53, 1001-1011	2.3	17
7	Magneto-thermo-elastic problem of a rotating nonhomogeneous anisotropic solid cylinder. <i>Archive of Applied Mechanics</i> , <b>2008</b> , 78, 135-148	2.2	27
6	The effect of initial stress and inhomogeneity on the thermoelastic stresses in a rotating anisotropic solid. <i>Archive of Applied Mechanics</i> , <b>2008</b> , 78, 431-442	2.2	29
5	Magneto-thermoelastic problem in non-homogeneous isotropic cylinder. <i>Heat and Mass Transfer</i> , <b>2003</b> , 39, 625-629	2.2	37
4	Thermal stresses in a rotating non-homogeneous orthotropic hollow cylinder. <i>Heat and Mass Transfer</i> , <b>2002</b> , 39, 41-46	2.2	52
3	A New Computerized Boundary Element Algorithm for Cancer Modeling of Cardiac Anisotropy on the ECG Simulation. <i>Asian Journal of Research in Computer Science</i> , 1-10		3
2	A new boundary element formulation for modeling and simulation of three-temperature distributions in carbon nanotube fiber reinforced composites with inclusions. <i>Mathematical Methods in the Applied Sciences</i> ,	2.3	9
1	Optimization of tank engine crank shaft material properties. <i>Mechanics Based Design of Structures and Machines</i> , 1-17	1.7	2