Xiaogeng Tian

List of Publications by Citations

61 papers	788 citations	17 h-index	25 g-index
62 ext. papers	940 ext. citations	2.9 avg, IF	4.88 L-index

#	Paper	IF	Citations
61	Blast resistance of sandwich-walled hollow cylinders with graded metallic foam cores. *Composite Structures*, **2012**, 94, 2485-2493	5.3	76
60	A direct finite element method study of generalized thermoelastic problems. *International Journal of Solids and Structures*, **2006**, 43, 2050-2063	3.1	63
59	State space approach to one-dimensional thermal shock problem for a semi-infinite piezoelectric rod. *International Journal of Engineering Science*, **2002**, 40, 1081-1097	5.7	51
58	Analytical study of transient thermo-mechanical responses of dual-layer skin tissue with variable thermal material properties. *International Journal of Thermal Sciences*, **2018**, 124, 459-466	4.1	34
57	Transient response for a half-space with variable thermal conductivity and diffusivity under thermal and chemical shock. *Journal of Thermal Stresses*, **2017**, 40, 389-401	2.2	31
56	Size-dependent thermo-electromechanical responses analysis of multi-layered piezoelectric nanoplates for vibration control. *Composite Structures*, **2019**, 225, 111112	5.3	29
55	A generalized electromagneto-thermoelastic problem for an infinitely long solid cylinder. *European Journal of Mechanics, A/Solids*, **2005**, 24, 349-359	3.7	26
54	A size-dependent generalized thermoelastic diffusion theory and its application. *Journal of Thermal Stresses*, **2017**, 40, 603-626	2.2	24
53	A modified fractional order generalized bio-thermoelastic theory with temperature-dependent thermal material properties. *International Journal of Thermal Sciences*, **2018**, 132, 249-256	4.1	24
52	Time-domain finite element analysis to nonlinear transient responses of generalized diffusion-thermoelasticity with variable thermal conductivity and diffusivity. *International Journal of Mechanical Sciences*, **2017**, 131-132, 234-244	5.5	23
51	Generalized thermoviscoelastic analysis with fractional order strain in a thick viscoelastic plate of infinite extent. *Journal of Thermal Stresses*, **2019**, 42, 1051-1070	2.2	22
50	Finite element method for generalized piezothermoelastic problems. *International Journal of Solids and Structures*, **2007**, 44, 6330-6339	3.1	20
49	Generalized thermoelastic diffusion problems with fractional order strain. *European Journal of Mechanics, A/Solids*, **2019**, 78, 103827	3.7	19
48	Pentamode metamaterials with asymmetric double-cone elements. *Journal Physics D: Applied Physics*, **2015**, 48, 175103	3	19
47	Size-dependent effect on thermo-electro-mechanical responses of heated nano-sized piezoelectric plate. *Waves in Random and Complex Media*, **2019**, 29, 477-495	1.9	19
46	Generalized Magneto-thermo-microstretch Response of a Half-space with Temperature-dependent Properties During Thermal Shock. *Latin American Journal of Solids and Structures*, **2015**, 12, 2562-2580	1.4	17
45	Study on generalized magneto-thermoelastic problems by FEM in time domain. *Acta Mechanica Sinica/Lixue Xuebao*, **2005**, 21, 380-387	2	17

44	Shock-induced thermal wave propagation and response analysis of a viscoelastic thin plate under transient heating loads. *Waves in Random and Complex Media*, **2018**, 28, 270-286	1.9	15
43	Thermo-viscoelastic analysis of biological tissue during hyperthermia treatment. *Applied Mathematical Modelling*, **2020**, 79, 881-895	4.5	15
42	Fracture behaviors of pre-cracked monolayer molybdenum disulfide: A molecular dynamics study. *Beilstein Journal of Nanotechnology*, **2016**, 7, 1411-1420	3	14
41	Torsional properties of hexagonal boron nitride nanotubes, carbon nanotubes and their hybrid structures: A molecular dynamics study. *AIP Advances*, **2015**, 5, 107215	1.5	13
40	Transient responses of nanosandwich structure based on size-dependent generalized thermoelastic diffusion theory. *Journal of Thermal Stresses*, **2019**, 42, 1171-1191	2.2	12
39	Dynamic response of two-dimensional generalized thermoelastic coupling problem subjected to a moving heat source. *Acta Mechanica Solida Sinica*, **2014**, 27, 300-305	2	12
38	Thermoelastic Study of an Infinite Functionally Graded Body with a Cylindrical Cavity Using the Green-Naghdi Model. *Journal of Thermal Stresses*, **2012**, 35, 718-732	2.2	10
37	The movement of screw dislocations in tungsten. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 369, 210-214	5.3	10
36	Nonlocal diffusion-elasticity based on nonlocal mass transfer and nonlocal elasticity and its application in shock-induced responses analysis. *Mechanics of Advanced Materials and Structures*, **2021**, 28, 827-838	1.8	10
35	Transient magneto-thermo-elasto-diffusive responses of rotating porous media without energy dissipation under thermal shock. *Meccanica*, **2016**, 51, 2435-2447	2.1	9
34	Investigation of transient thermo-mechanical responses on the triple-layered skin tissue with temperature dependent blood perfusion rate. *International Journal of Thermal Sciences*, **2019**, 139, 339-349	4.1	8
33	Atomistic simulations of interfacial mechanical characteristics of carbon nanotube/silicon nanocomposites. *Molecular Simulation*, **2015**, 41, 1051-1059	2	8
32	Size-dependent mechanical-diffusion responses of multilayered composite nanoplates. *Waves in Random and Complex Media*, **2020**, 1-30	1.9	8
31	Effect of rotation on plane waves of generalized electromagnetothermoelastics with diffusion for a half-space. *Journal of Thermal Stresses*, **2016**, 39, 27-43	2.2	8
30	Two-dimensional thermoelastic problem of an infinite magneto-microstretch homogeneous isotropic plate. *Archive of Applied Mechanics*, **2012**, 82, 13-29	2.2	8
29	Dynamic potentials and Green□ functions of a quasi-plane magneto-electro-elastic medium with inclusion. *International Journal of Engineering Science*, **2006**, 44, 540-553	5.7	8
28	Synergistic effect of supercritical CO and organic solvent on exfoliation of graphene: experiment and atomistic simulation studies. *Physical Chemistry Chemical Physics*, **2019**, 21, 22149-22157	3.6	8
27	A modified fractional-order generalized piezoelectric thermoelasticity model with variable thermal conductivity. *Journal of Thermal Stresses*, **2018**, 41, 1538-1557	2.2	8

26	Transient thermomechanical responses of multilayered viscoelastic composite structure with non-idealized interfacial conditions in the context of generalized thermoviscoelasticity theory with time-fractional order strain. *Journal of Thermal Stresses*, **2020**, 43, 895-928	2.2	7
25	Effect of multi-pulses train on the thermomechanical response of a metal thin film. *Journal of Thermal Stresses*, **2016**, 39, 1-10	2.2	7
24	Transient responses of a hollow cylinder under thermal and chemical shock based on generalized diffusion-thermoelasticity with memory-dependent derivative. *Journal of Thermal Stresses*, **2019**, 42, 313-331	2.2	7
23	Transient responses of generalized magnetothermoelasto-diffusive problems with rotation using Laplace transform finite element method. *Journal of Thermal Stresses*, **2017**, 40, 1152-1165	2.2	6
22	Size-dependent buckling analysis of Euler Bernoulli nanobeam under non-uniform concentration. *Archive of Applied Mechanics*, **2020**, 90, 1845-1860	2.2	6
21	Nonlocal second-order strain gradient elasticity model and its application in wave propagating in carbon nanotubes. *Microsystem Technologies*, **2019**, 25, 2215-2227	1.7	6
20	Soret effect on the shock responses of generalized diffusion-thermoelasticity. *Journal of Thermal Stresses*, **2017**, 40, 1563-1574	2.2	6
19	Fractional order thermo-viscoelastic theory of biological tissue with dual phase lag heat conduction model. *Applied Mathematical Modelling*, **2021**, 95, 612-622	4.5	6
18	Generalized piezoelectric thermoelasticity problems with strain rate and transient thermo-electromechanical responses analysis. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*, **2020**, 100, e201900067	1	5
17	Effect of Initial Stress on a Fiber-Reinforced Thermoelastic Porous Media Without Energy Dissipation. *Transport in Porous Media*, **2016**, 111, 81-95	3.1	5
16	An investigation into size-dependent dynamic thermo-electromechanical response of piezoelectric-laminated sandwich smart nanocomposites. *International Journal of Energy Research*, **2021**, 45, 7235-7255	4.5	5
15	Analytical study of transient thermo-mechanical responses in a fractional order generalized thermoelastic diffusion spherical shell with variable thermal conductivity and diffusivity. *Waves in Random and Complex Media*, **2019**, 1-24	1.9	4
14	Modeling of Non-Equilibrium Deformation in a Double-Layered Thin Film During Ultrashort Laser Heating. *Journal of Thermal Stresses*, **2013**, 36, 387-404	2.2	4
13	Nonlocal theory of thermoelastic diffusive materials and its application in structural dynamic thermo-elasto-diffusive responses analysis. *Waves in Random and Complex Media*,1-30	1.9	4
12	Size-dependent generalized thermo-viscoelastic response analysis of multi-layered viscoelastic laminated nanocomposite account for imperfect interfacial conditions. *Waves in Random and Complex Media*,1-38	1.9	3
11	The phase change thermoelastic analysis of biological tissue with variable thermal properties during cryosurgery. *Journal of Thermal Stresses*, **2020**, 43, 998-1016	2.2	2
10	New insights on piezoelectric thermoelastic coupling and transient thermo-electromechanical responses of multi-layered piezoelectric laminated composite structure. *European Journal of Mechanics, A/Solids*, **2022**, 91, 104416	3.7	2
9	A fractional dual-phase-lag generalized thermoelastic model of ultrashort pulse laser ablation with variable thermal material properties, vaporization and plasma shielding. *International Journal of Thermal Sciences*, **2022**, 177, 107556	4.1	2

8	An analytical study of transient thermo-viscoelastic responses of viscoelastic laminated sandwich composite structure for vibration control. *Mechanics of Advanced Materials and Structures*, **2020**, 1-11	1.8	1
7	Thermomechanical response of porous biological tissue based on local thermal non-equilibrium. *Journal of Thermal Stresses*, **2019**, 42, 1481-1498	2.2	1
6	Transient Response in a Micropolar Mixture of Porous Media During Thermal Shock. *International Journal of Thermophysics*, **2011**, 32, 2148-2162	2.1	1
5	A complete rate-dependent constitutive model of thermo-elasto-diffusive coupling and its application in structural dynamic responses analysis of multi-layered laminated sandwich composites subjected to axisymmetric heat and chemical shock loadings. *Applied Mathematical Modelling*, **2022**, 105, 284-306	4.5	0
4	A generalized thermoelastic diffusion problem of thin plate heated by the ultrashort laser pulses with memory-dependent and spatial nonlocal effect. *Journal of Thermal Stresses*,1-20	2.2	0
3	Thermally nonlinear non-Fourier piezoelectric thermoelasticity problems with temperature-dependent elastic constants and thermal conductivity and nonlinear finite element analysis. *Waves in Random and Complex Media*,1-38	1.9	0
2	Two-Dimensional Generalized Magneto-Thermoelastic Problem in a Semi-Infinite Micropolar Porous Body. *Journal of Computational and Theoretical Nanoscience*, **2015**, 12, 4200-4210	0.3	
1	The thermal injury analysis of skin tissue with a new nonlocal dual phase lag model. *Waves in Random and Complex Media*,1-14	1.9	