

Xiaogeng Tian

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.

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	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. <i>Applied Mathematical Modelling</i> , 2022 , 105, 221-234	4.5	0
60	New insights on piezoelectric thermoelastic coupling and transient thermo-electromechanical responses of multi-layered piezoelectric laminated composite structure. <i>European Journal of Mechanics, A/Solids</i> , 2022 , 91, 104416	3.7	2
59	A fractional dual-phase-lag generalized thermoelastic model of ultrashort pulse laser ablation with variable thermal material properties, vaporization and plasma shielding. <i>International Journal of Thermal Sciences</i> , 2022 , 177, 107556	4.1	2
58	Fractional order thermo-viscoelastic theory of biological tissue with dual phase lag heat conduction model. <i>Applied Mathematical Modelling</i> , 2021 , 95, 612-622	4.5	6
57	Nonlocal diffusion-elasticity based on nonlocal mass transfer and nonlocal elasticity and its application in shock-induced responses analysis. <i>Mechanics of Advanced Materials and Structures</i> , 2021 , 28, 827-838	1.8	10
56	An investigation into size-dependent dynamic thermo-electromechanical response of piezoelectric-laminated sandwich smart nanocomposites. <i>International Journal of Energy Research</i> , 2021 , 45, 7235-7255	4.5	5
55	The phase change thermoelastic analysis of biological tissue with variable thermal properties during cryosurgery. <i>Journal of Thermal Stresses</i> , 2020 , 43, 998-1016	2.2	2
54	Size-dependent mechanical-diffusion responses of multilayered composite nanoplates. <i>Waves in Random and Complex Media</i> , 2020 , 1-30	1.9	8
53	Generalized piezoelectric thermoelasticity problems with strain rate and transient thermo-electromechanical responses analysis. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020 , 100, e201900067	1	5
52	Size-dependent buckling analysis of Euler-Bernoulli nanobeam under non-uniform concentration. <i>Archive of Applied Mechanics</i> , 2020 , 90, 1845-1860	2.2	6
51	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. <i>Journal of Thermal Stresses</i> , 2020 , 43, 895-928	2.2	7
50	An analytical study of transient thermo-viscoelastic responses of viscoelastic laminated sandwich composite structure for vibration control. <i>Mechanics of Advanced Materials and Structures</i> , 2020 , 1-11	1.8	1
49	Thermo-viscoelastic analysis of biological tissue during hyperthermia treatment. <i>Applied Mathematical Modelling</i> , 2020 , 79, 881-895	4.5	15
48	Transient responses of nanosandwich structure based on size-dependent generalized thermoelastic diffusion theory. <i>Journal of Thermal Stresses</i> , 2019 , 42, 1171-1191	2.2	12
47	Size-dependent thermo-electromechanical responses analysis of multi-layered piezoelectric nanoplates for vibration control. <i>Composite Structures</i> , 2019 , 225, 111112	5.3	29
46	Investigation of transient thermo-mechanical responses on the triple-layered skin tissue with temperature dependent blood perfusion rate. <i>International Journal of Thermal Sciences</i> , 2019 , 139, 339-349	4.1	8
45	Generalized thermoviscoelastic analysis with fractional order strain in a thick viscoelastic plate of infinite extent. <i>Journal of Thermal Stresses</i> , 2019 , 42, 1051-1070	2.2	22

44	Nonlocal second-order strain gradient elasticity model and its application in wave propagating in carbon nanotubes. <i>Microsystem Technologies</i> , 2019 , 25, 2215-2227	1.7	6
43	Analytical study of transient thermo-mechanical responses in a fractional order generalized thermoelastic diffusion spherical shell with variable thermal conductivity and diffusivity. <i>Waves in Random and Complex Media</i> , 2019 , 1-24	1.9	4
42	Generalized thermoelastic diffusion problems with fractional order strain. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 78, 103827	3.7	19
41	Thermomechanical response of porous biological tissue based on local thermal non-equilibrium. <i>Journal of Thermal Stresses</i> , 2019 , 42, 1481-1498	2.2	1
40	Synergistic effect of supercritical CO and organic solvent on exfoliation of graphene: experiment and atomistic simulation studies. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22149-22157	3.6	8
39	Transient responses of a hollow cylinder under thermal and chemical shock based on generalized diffusion-thermoelasticity with memory-dependent derivative. <i>Journal of Thermal Stresses</i> , 2019 , 42, 313-331	2.2	7
38	Size-dependent effect on thermo-electro-mechanical responses of heated nano-sized piezoelectric plate. <i>Waves in Random and Complex Media</i> , 2019 , 29, 477-495	1.9	19
37	Shock-induced thermal wave propagation and response analysis of a viscoelastic thin plate under transient heating loads. <i>Waves in Random and Complex Media</i> , 2018 , 28, 270-286	1.9	15
36	A modified fractional order generalized bio-thermoelastic theory with temperature-dependent thermal material properties. <i>International Journal of Thermal Sciences</i> , 2018 , 132, 249-256	4.1	24
35	Analytical study of transient thermo-mechanical responses of dual-layer skin tissue with variable thermal material properties. <i>International Journal of Thermal Sciences</i> , 2018 , 124, 459-466	4.1	34
34	A modified fractional-order generalized piezoelectric thermoelasticity model with variable thermal conductivity. <i>Journal of Thermal Stresses</i> , 2018 , 41, 1538-1557	2.2	8
33	Transient responses of generalized magnetothermoelasto-diffusive problems with rotation using Laplace transform finite element method. <i>Journal of Thermal Stresses</i> , 2017 , 40, 1152-1165	2.2	6
32	A size-dependent generalized thermoelastic diffusion theory and its application. <i>Journal of Thermal Stresses</i> , 2017 , 40, 603-626	2.2	24
31	Soret effect on the shock responses of generalized diffusion-thermoelasticity. <i>Journal of Thermal Stresses</i> , 2017 , 40, 1563-1574	2.2	6
30	Time-domain finite element analysis to nonlinear transient responses of generalized diffusion-thermoelasticity with variable thermal conductivity and diffusivity. <i>International Journal of Mechanical Sciences</i> , 2017 , 131-132, 234-244	5.5	23
29	Transient response for a half-space with variable thermal conductivity and diffusivity under thermal and chemical shock. <i>Journal of Thermal Stresses</i> , 2017 , 40, 389-401	2.2	31
28	Effect of Initial Stress on a Fiber-Reinforced Thermoelastic Porous Media Without Energy Dissipation. <i>Transport in Porous Media</i> , 2016 , 111, 81-95	3.1	5
27	Effect of rotation on plane waves of generalized electromagnetothermoelastics with diffusion for a half-space. <i>Journal of Thermal Stresses</i> , 2016 , 39, 27-43	2.2	8

26	Effect of multi-pulses train on the thermomechanical response of a metal thin film. <i>Journal of Thermal Stresses</i> , 2016 , 39, 1-10	2.2	7
25	Transient magneto-thermo-elasto-diffusive responses of rotating porous media without energy dissipation under thermal shock. <i>Meccanica</i> , 2016 , 51, 2435-2447	2.1	9
24	Fracture behaviors of pre-cracked monolayer molybdenum disulfide: A molecular dynamics study. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1411-1420	3	14
23	Atomistic simulations of interfacial mechanical characteristics of carbon nanotube/silicon nanocomposites. <i>Molecular Simulation</i> , 2015 , 41, 1051-1059	2	8
22	Torsional properties of hexagonal boron nitride nanotubes, carbon nanotubes and their hybrid structures: A molecular dynamics study. <i>AIP Advances</i> , 2015 , 5, 107215	1.5	13
21	Generalized Magneto-thermo-microstretch Response of a Half-space with Temperature-dependent Properties During Thermal Shock. <i>Latin American Journal of Solids and Structures</i> , 2015 , 12, 2562-2580	1.4	17
20	Pentamode metamaterials with asymmetric double-cone elements. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 175103	3	19
19	Two-Dimensional Generalized Magneto-Thermoelastic Problem in a Semi-Infinite Micropolar Porous Body. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015 , 12, 4200-4210	0.3	
18	Dynamic response of two-dimensional generalized thermoelastic coupling problem subjected to a moving heat source. <i>Acta Mechanica Solida Sinica</i> , 2014 , 27, 300-305	2	12
17	Modeling of Non-Equilibrium Deformation in a Double-Layered Thin Film During Ultrashort Laser Heating. <i>Journal of Thermal Stresses</i> , 2013 , 36, 387-404	2.2	4
16	Two-dimensional thermoelastic problem of an infinite magneto-microstretch homogeneous isotropic plate. <i>Archive of Applied Mechanics</i> , 2012 , 82, 13-29	2.2	8
15	Thermoelastic Study of an Infinite Functionally Graded Body with a Cylindrical Cavity Using the Green-Naghdi Model. <i>Journal of Thermal Stresses</i> , 2012 , 35, 718-732	2.2	10
14	Blast resistance of sandwich-walled hollow cylinders with graded metallic foam cores. <i>Composite Structures</i> , 2012 , 94, 2485-2493	5.3	76
13	Transient Response in a Micropolar Mixture of Porous Media During Thermal Shock. <i>International Journal of Thermophysics</i> , 2011 , 32, 2148-2162	2.1	1
12	Finite element method for generalized piezothermoelastic problems. <i>International Journal of Solids and Structures</i> , 2007 , 44, 6330-6339	3.1	20
11	A direct finite element method study of generalized thermoelastic problems. <i>International Journal of Solids and Structures</i> , 2006 , 43, 2050-2063	3.1	63
10	Dynamic potentials and Green's functions of a quasi-plane magneto-electro-elastic medium with inclusion. <i>International Journal of Engineering Science</i> , 2006 , 44, 540-553	5.7	8
9	A generalized electromagneto-thermoelastic problem for an infinitely long solid cylinder. <i>European Journal of Mechanics, A/Solids</i> , 2005 , 24, 349-359	3.7	26

8	Study on generalized magneto-thermoelastic problems by FEM in time domain. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2005 , 21, 380-387	2	17
7	The movement of screw dislocations in tungsten. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 369, 210-214	5.3	10
6	State space approach to one-dimensional thermal shock problem for a semi-infinite piezoelectric rod. <i>International Journal of Engineering Science</i> , 2002 , 40, 1081-1097	5.7	51
5	Nonlocal theory of thermoelastic diffusive materials and its application in structural dynamic thermo-elasto-diffusive responses analysis. <i>Waves in Random and Complex Media</i> , 1-30	1.9	4
4	Size-dependent generalized thermo-viscoelastic response analysis of multi-layered viscoelastic laminated nanocomposite account for imperfect interfacial conditions. <i>Waves in Random and Complex Media</i> , 1-38	1.9	3
3	A generalized thermoelastic diffusion problem of thin plate heated by the ultrashort laser pulses with memory-dependent and spatial nonlocal effect. <i>Journal of Thermal Stresses</i> , 1-20	2.2	0
2	Thermally nonlinear non-Fourier piezoelectric thermoelasticity problems with temperature-dependent elastic constants and thermal conductivity and nonlinear finite element analysis. <i>Waves in Random and Complex Media</i> , 1-38	1.9	0
1	The thermal injury analysis of skin tissue with a new nonlocal dual phase lag model. <i>Waves in Random and Complex Media</i> , 1-14	1.9	