

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/985452/publications.pdf>

Version: 2024-02-01

64
papers

1,067
citations

393982

19
h-index

433756

31
g-index

64
all docs

64
docs citations

64
times ranked

590
citing authors

#	ARTICLE	IF	CITATIONS
1	An analytical and numerical approach for calculating effective material coefficients of piezoelectric fiber composites. <i>International Journal of Solids and Structures</i> , 2005, 42, 5692-5714.	1.3	199
2	Homogenization of magneto-electro-elastic multilaminated materials. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2008, 61, 311-332.	0.5	78
3	Asymptotic homogenization of laminated piezocomposite materials. <i>International Journal of Solids and Structures</i> , 1998, 35, 527-541.	1.3	71
4	Finite element and asymptotic homogenization methods applied to smart composite materials. <i>Computational Mechanics</i> , 2003, 33, 61-67.	2.2	50
5	Different approaches for calculating the effective elastic properties in composite materials under imperfect contact adherence. <i>Composite Structures</i> , 2013, 99, 264-275.	3.1	40
6	A recursive asymptotic homogenization scheme for multi-phase fibrous elastic composites. <i>Mechanics of Materials</i> , 2005, 37, 1119-1131.	1.7	31
7	On the effective behavior of viscoelastic composites in three dimensions. <i>International Journal of Engineering Science</i> , 2020, 157, 103377.	2.7	31
8	Dispersion relations for SH wave in magneto-electro-elastic heterostructures. <i>International Journal of Solids and Structures</i> , 2008, 45, 5356-5367.	1.3	29
9	Effective elastic shear stiffness of a periodic fibrous composite with non-uniform imperfect contact between the matrix and the fibers. <i>International Journal of Solids and Structures</i> , 2014, 51, 1253-1262.	1.3	29
10	Semi-analytical method for computing effective properties in elastic composite under imperfect contact. <i>International Journal of Solids and Structures</i> , 2013, 50, 609-622.	1.3	28
11	Dynamical behavior of a layered piezocomposite using the asymptotic homogenization method. <i>Mechanics of Materials</i> , 2005, 37, 33-44.	1.7	27
12	Homogenization and effective properties of periodic thermomagnetoelastic composites. <i>Journal of Mechanics of Materials and Structures</i> , 2009, 4, 819-836.	0.4	25
13	Computation of the relaxation effective moduli for fibrous viscoelastic composites using the asymptotic homogenization method. <i>International Journal of Solids and Structures</i> , 2020, 190, 281-290.	1.3	25
14	Wave propagation in layered piezoelectric structures. <i>Journal of Applied Physics</i> , 1998, 83, 4652-4659.	1.1	24
15	Numerical and analytical analyses for active fiber composite piezoelectric composite materials. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 101-118.	1.4	23
16	Effective properties of periodic fibrous electro-elastic composites with mechanic imperfect contact condition. <i>International Journal of Mechanical Sciences</i> , 2013, 73, 1-13.	3.6	22
17	Homogenization of heterogeneous piezoelectric medium. <i>Mechanics Research Communications</i> , 1997, 24, 75-84.	1.0	21
18	Interfacial waves between two piezoelectric half-spaces with electro-mechanical imperfect interface. <i>Philosophical Magazine Letters</i> , 2012, 92, 534-540.	0.5	21

#	ARTICLE	IF	CITATIONS
19	Interphase effect on the effective magneto-electro-elastic properties for three-phase fiber-reinforced composites by a semi-analytical approach. <i>International Journal of Engineering Science</i> , 2020, 154, 103310.	2.7	21
20	Constant mass model for the liquid-solid phase transition on a one-dimensional Stefan problem: Transient and steady state regimes. <i>International Journal of Thermal Sciences</i> , 2017, 118, 40-52.	2.6	20
21	Interfacial waves between piezoelectric and piezomagnetic half-spaces with magneto-electro-mechanical imperfect interface. <i>Philosophical Magazine Letters</i> , 2013, 93, 413-421.	0.5	19
22	Asymptotic and numerical homogenization methods applied to fibrous viscoelastic composites using Prony's series. <i>Acta Mechanica</i> , 2020, 231, 2761-2771.	1.1	19
23	Interfacial waves between two magneto-electro-elastic half-spaces with magneto-electro-mechanical imperfect interface. <i>Philosophical Magazine Letters</i> , 2014, 94, 629-638.	0.5	18
24	Analysis of fibrous elastic composites with nonuniform imperfect adhesion. <i>Acta Mechanica</i> , 2016, 227, 57-73.	1.1	16
25	Modeling the release of curcumin from microparticles of poly(hydroxybutyrate) [PHB]. <i>International Journal of Biological Macromolecules</i> , 2020, 144, 47-52.	3.6	15
26	Shear horizontal wave in multilayered piezoelectric structures: Effect of frequency, incidence angle and constructive parameters. <i>International Journal of Solids and Structures</i> , 2011, 48, 2941-2947.	1.3	14
27	Presence of Stark ladders in scattering of shear horizontal piezoelectric waves. <i>Journal of Applied Physics</i> , 2004, 96, 1178-1185.	1.1	12
28	Computation of effective properties in elastic composites under imperfect contact with different inclusion shapes. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 3290-3310.	1.2	12
29	Wave propagation in a piezoelectric layer. <i>Journal of Applied Physics</i> , 1997, 81, 7242-7247.	1.1	11
30	Fundamental incorporation of the density change during melting of a confined phase change material. <i>Journal of Applied Physics</i> , 2018, 123, 085105.	1.1	11
31	Dispersion relations for SH waves on a magneto-electro-elastic heterostructure with imperfect interfaces. <i>Journal of Mechanics of Materials and Structures</i> , 2011, 6, 969-993.	0.4	11
32	Dynamic homogenization for composites with embedded multioriented ellipsoidal inclusions. <i>International Journal of Solids and Structures</i> , 2015, 69-70, 121-130.	1.3	9
33	Effects of Pressure-Induced Density Changes in the Thermal Energy Absorbed by a Micro-Encapsulated Phase-Change Material. <i>Molecules</i> , 2019, 24, 1254.	1.7	8
34	Thermal expansion effects on the one-dimensional liquid-solid phase transition in high temperature phase change materials. <i>AIP Advances</i> , 2019, 9, 025125.	0.6	8
35	Computation of Effective Elastic Properties Using a Three-Dimensional Semi-Analytical Approach for Transversely Isotropic Nanocomposites. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1867.	1.3	6
36	Non parabolic interface motion for the 1-D Stefan problem: Dirichlet boundary conditions. <i>Thermal Science</i> , 2017, 21, 2327-2336.	0.5	6

#	ARTICLE	IF	CITATIONS
37	Phase Velocity Method for Guided Wave Measurements in Composite Plates. <i>Physics Procedia</i> , 2015, 63, 54-60.	1.2	5
38	On the warping of the extreme ends of a beam under flexural oscillations. <i>Journal of Sound and Vibration</i> , 2018, 435, 234-245.	2.1	5
39	Effective behavior of long and short fiber-reinforced viscoelastic composites. <i>Applications in Engineering Science</i> , 2021, 6, 100037.	0.5	5
40	Micromechanical analysis of fibrous piezoelectric composites with imperfectly bonded adherence. <i>Archive of Applied Mechanics</i> , 2014, 84, 1565-1582.	1.2	4
41	Static effective characteristics in piezoelectric composite materials. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 3249-3264.	1.2	4
42	Viscoelastic effective properties for composites with rectangular cross-section fibers using the asymptotic homogenization method. <i>Advanced Structured Materials</i> , 2018, , 203-222.	0.3	4
43	Non-parabolic interface motion for the one-dimensional Stefan problem: Neumann boundary conditions. <i>Thermal Science</i> , 2017, 21, 2699-2708.	0.5	4
44	Asymptotic homogenization approach applied to Cosserat heterogeneous media. , 2022, , 459-491.		4
45	Micro-“macro asymptotic approach applied to heterogeneous elastic micropolar media. Analysis of some examples. <i>International Journal of Solids and Structures</i> , 2022, 239-240, 111444.	1.3	4
46	Effects of Volume Changes on the Thermal Performance of PCM Layers Subjected to Oscillations of the Ambient Temperature: Transient and Steady Periodic Regimes. <i>Molecules</i> , 2022, 27, 2158.	1.7	3
47	Semi-analytical finite elements methods for dispersion curves using higher order elements for long range ultrasonic testing. , 2009, , .		2
48	Further understanding of doorway states in elastic systems. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 646-652.	0.5	2
49	Interfacial waves in an A/B/A piezoelectric structure with electro-mechanical imperfect interfaces. <i>Journal of Mechanics of Materials and Structures</i> , 2017, 12, 457-470.	0.4	2
50	Unit Cell Models of Viscoelastic Fibrous Composites for Numerical Computation of Effective Properties. <i>Advanced Structured Materials</i> , 2018, , 69-82.	0.3	2
51	The mechanical response of thermoplastic polyethylene monoliths containing longitudinal microcapillaries. <i>International Journal of Material Forming</i> , 2018, 11, 135-147.	0.9	2
52	Effects of Total Thermal Balance on the Thermal Energy Absorbed or Released by a High-Temperature Phase Change Material. <i>Molecules</i> , 2021, 26, 365.	1.7	2
53	Energy localization in optical systems showing electromagnetic Wannier ladder resonances. <i>Superlattices and Microstructures</i> , 2016, 100, 799-807.	1.4	1
54	A solution for the local plane strain problems using elliptic integrals of Cauchy type. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 2660-2685.	1.2	1

#	ARTICLE	IF	CITATIONS
55	An approach for modeling non-ageing linear viscoelastic composites with general periodicity. <i>Composite Structures</i> , 2019, 223, 110927.	3.1	1
56	A solution for antiplane strain local problems using elliptic integrals of Cauchy type. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 5177-5192.	1.2	0
57	Multifractal spectra of extended states with gate tunable Rashba spin-orbit interaction in two-dimensional electron systems. <i>AIP Advances</i> , 2019, 9, 095003.	0.6	0
58	Thermo-elastic model for the prediction of thermodynamic properties of high temperature phase change materials under confinement: Isobaric and isochoric regimes. <i>AIP Advances</i> , 2020, 10, 045329.	0.6	0
59	Complex Fourier series expansion for the liquid-solid phase transition in PCM layers: transient and steady state periodic regimes. <i>E3S Web of Conferences</i> , 2021, 294, 05001.	0.2	0
60	Semi-Analytical Method for Computing Effective Thermoelastic Properties in Fiber-Reinforced Composite Materials. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5354.	1.3	0
61	Shear vertical waves in laminated coupled electro-mechanic materials with imperfect contact conditions at the interfaces. <i>Journal of Mechanics of Materials and Structures</i> , 2021, 16, 123-137.	0.4	0
62	Effective Elastic Properties Using Maxwell's Approach for Transversely Isotropic Composites. <i>Advanced Structured Materials</i> , 2019, , 183-210.	0.3	0
63	Finite size corrections on the estimation of the effective diffusion coefficients through the dynamical behavior of the diffusion zone during gaseous nitriding of pure iron. <i>Thermal Science and Engineering Progress</i> , 2021, 28, 101096.	1.3	0
64	Thermophysical Characterization of Paraffin Wax Based on Mass-Accommodation Methods Applied to a Cylindrical Thermal Energy-Storage Unit. <i>Molecules</i> , 2022, 27, 1189.	1.7	0