Nicolas Charalambakis

List of Publications by Year
in descending order

59 papers	697 citations	687363 13 h-index	580821 25 g-index
59 all docs	59 docs citations	59 times ranked	480 citing authors

#	Article	IF	Citations
1	Mathematical homogenization theory. , 2022, , 271-297.		0
2	Periodic homogenization. , 2022, , 127-145.		0
3	Nonlinear composites. , 2022, , 299-324.		1
4	Multiscale modeling accounting for inelastic mechanisms of fuzzy fiber composites with straight or wavy carbon nanotubes. International Journal of Solids and Structures, 2020, 202, 39-57.	2.7	9
5	A model of heterogeneous thermoviscoplastic material preserving uniform normal strains under combined compression, tension (or compression) and shearing. Instability and homogenization results. Composites Part B: Engineering, 2019, 167, 263-276.	12.0	1
6	Mathematical homogenization of inelastic dissipative materials: a survey and recent progress. Continuum Mechanics and Thermodynamics, 2018, 30, 1-51.	2.2	32
7	Effective properties of multiphase composites made of elastic materials with hierarchical structure. Mathematics and Mechanics of Solids, 2017, 22, 751-770.	2.4	6
8	Effective behavior of thermo-elastic tubes with wavy layers. Composites Part B: Engineering, 2016, 99, 173-187.	12.0	5
9	Periodic homogenization for fully coupled thermomechanical modeling of dissipative generalized standard materials. International Journal of Plasticity, 2016, 81, 18-39.	8.8	53
10	Dissipation inequality-based periodic homogenization of wavy materials. Composites Part B: Engineering, 2015, 76, 89-104.	12.0	6
11	The effect of fibre chemical treatment on the steel fibre/cementitious matrix interface. Construction and Building Materials, 2013, 40, 77-83.	7.2	36
12	Homogenization of elastoplastic composites with generalized periodicity in the microstructure. International Journal of Plasticity, 2013, 51, 161-187.	8.8	30
13	Admissible deformation fields for the homogenization of elastoplastic materials with generalized periodicity. Mechanics Research Communications, 2013, 53, 43-46.	1.8	1
14	Three‐dimensional morphometric mapping of rat muscle fibers. Muscle and Nerve, 2013, 48, 951-957.	2.2	1
15	Effective thermoelastic properties of composites with periodicity in cylindrical coordinates. International Journal of Solids and Structures, 2012, 49, 2590-2603.	2.7	37
16	Homogenization of structures with generalized periodicity. Composites Part B: Engineering, 2012, 43, 2495-2512.	12.0	33
17	Special Issue of Composites Part B: Homogenization and Micromechanics of Smart and Multifunctional Materials. Composites Part B: Engineering, 2012, 43, 2493-2494.	12.0	6
18	Effective behavior of composite structures made of thermoelastic constituents with cylindrical periodicity. Procedia Engineering, 2011, 10, 3602-3607.	1.2	2

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19	Homogenization Techniques and Micromechanics. A Survey and Perspectives. Applied Mechanics Reviews, 2010, 63, .	10.1	162
20	A micromechanically based model for damage-enhanced creep-rupture in continuous fiber-reinforced ceramic matrix composites. Mechanics of Materials, 2010, 42, 570-580.	3.2	14
21	Two stable-by-homogenization models in simple shearing of rate-dependent non-homogeneous materials. Quarterly of Applied Mathematics, 2010, 68, 395-419.	0.7	4
22	STABILITY BY HOMOGENIZATION OF THERMOVISCOPLASTIC PROBLEMS. Mathematical Models and Methods in Applied Sciences, 2010, 20, 1591-1616.	3.3	6
23	Derivation of the material momentum equation from the energy balance. Zeitschrift Fur Angewandte Mathematik Und Physik, 2009, 60, 575-579.	1.4	0
24	Homogenization of a pressurized tube made of elastoplastic materials with discontinuous properties. International Journal of Solids and Structures, 2009, 46, 3902-3913.	2.7	14
25	Continuously Dislocated Elastic Bodies withÂaÂNeo-Hookean Like Energy Subjected toÂAnti-plane Shear. Journal of Elasticity, 2008, 93, 245-262.	1.9	11
26	Homogenization problems of a hollow cylinder made of elastic materials with discontinuous properties. International Journal of Solids and Structures, 2008, 45, 5165-5180.	2.7	38
27	The role of gradation on the improvement of effective properties of highly heterogeneous multilayered thermoviscoplastic materials under simple shearing. International Journal of Engineering Science, 2008, 46, 1279-1290.	5.0	0
28	P1833 A cost-effective study of VRE surveillance in a Greek university hospital. International Journal of Antimicrobial Agents, 2007, 29, S524.	2.5	0
29	Biaxial Loading of Continuously Graded Thermoviscoplastic Materials. Computational Mechanics, 2007, 39, 335-355.	4.0	11
30	Variational arguments and Noether's theorem on the nonlinear continuum theory of dislocations. International Journal of Engineering Science, 2006, 44, 501-512.	5.0	5
31	Approximation by finite elements, existence and uniqueness for a model of stratified thermoviscoplastic materials. Ricerche Di Matematica, 2006, 55, 11-58.	1.0	5
32	Homogenization of stratified thermoviscoplastic materials. Quarterly of Applied Mathematics, 2006, 64, 359-399.	0.7	17
33	Instability analysis of non-homogeneous materials under biaxial loading. International Journal of Plasticity, 2005, 21, 1970-1999.	8.8	20
34	Adiabatic shearing of non-homogeneous thermoviscoplastic materials. International Journal of Plasticity, 2004, 20, 899-914.	8.8	13
35	The role of material non-homogeneities on the formation and evolution of strain non-uniformities in thermoviscoplastic shearing. Quarterly of Applied Mathematics, 2004, 62, 97-116.	0.7	3
36	Two-dimensional adiabatic Newtonian flow with temperature-dependent viscosity. International Journal of Engineering Science, 2001, 39, 1143-1165.	5.0	3

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37	Shear stability and strain, strain-rate and temperature-dependent â€œcoldâ€•work. International Journal of Engineering Science, 2001, 39, 1899-1911.	5.0	4
38	Stability conditions of materials with strain, strain rate and temperature dependent fraction of work converted into heat. Mechanics Research Communications, 2001, 28, 261-264.	1.8	1
39	On the ?inertial? time in instability of materials with non-monotone yield stress. Acta Mechanica, 1997, 121, 21-34.	2.1	0
40	Shear banding in non-uniform straining of ductile strain-rate sensitive materialsâ€"A steady strain-rate approximation. International Journal of Engineering Science, 1995, 33, 583-597.	5.0	1
41	Dynamic stress concentration around a hole in a viscoelastic plate. Acta Mechanica, 1995, 111, 1-12.	2.1	10
42	The Influence of the Friction Coefficients on the Uniqueness of the Solution of the Unilateral Contact Problem. , 1995, , 79-86.		3
43	An analytical/numerical approach for cracked elastic strips under concentrated loads ? transient response. International Journal of Fracture, 1994, 65, 49-61.	2.2	7
44	Static frictional indentation of an elastic half-plane by a rigid unsymmetrical punch. Zeitschrift Fur Angewandte Mathematik Und Physik, 1994, 45, 478-492.	1.4	4
45	Thermoviscoplastic instabilities and double strain gradient approach in biaxial loading by effective instability analysis. International Journal of Plasticity, 1994, 10, 451-469.	8.8	1
46	Non-uniform straining of ductile materials under slowly varying shear strain. Mechanics Research Communications, 1994, 21, 41-45.	1.8	0
47	The stabilizing role of higher-order strain gradients in non-linear thermoviscoplasticity. Acta Mechanica, 1991, 86, 65-81.	2.1	5
48	Thermoviscoplastic shear instability and higher order strain gradients. International Journal of Engineering Science, 1991, 29, 1639-1650.	5.0	9
49	On stress controlled thermoviscoplastic shearing and higher order strain gradients. Acta Mechanica, 1990, 81, 109-114.	2.1	5
50	On the problem of shear instability of a finite thermoviscoplastic slab: A gradient approach. Mechanics Research Communications, 1990, 17, 231-238.	1.8	1
51	Weak solutions to the initial-boundary value problem for the shearing of non-homogeneous thermoviscoplastic materials. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1989, 113, 257-265.	1.2	13
52	Shear Stability, Instability and Localization of Materials Exhibiting Thermal Softening, Strain Rate Sensitivity and Strain Hardening. Journal of Energy Resources Technology, Transactions of the ASME, 1989, 111, 250-253.	2.3	1
53	NONUNIFORMITIES AND STABILITY IN THERMAL FLUID MECHANICS. Journal of Thermal Stresses, 1988, 11, 325-340.	2.0	3
54	ANALYTICAL AND NUMERICAL SOLUTION OF MATERIALS EXHIBITING STRAIN HARDENING OR TEMPERATURE-DEPENDENT VISCOSITY. Quarterly Journal of Mechanics and Applied Mathematics, 1987, 40, 89-104.	1.3	7

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55	Behavior and asymptotic stability of thermomechanical processes. International Journal of Engineering Science, 1986, 24, 755-764.	5.0	1
56	Time-asymptotic stability of non-newtonian fluid or plastic solid. Mechanics Research Communications, 1985, 12, 311-317.	1.8	9
57	ADIABATIC SHEARING OF AN INCOMPRESSIBLE FLUID WITH TEMPERATURE-DEPENDENT VISCOSITY UNDER PERIODIC OR STEADY-BOUNDARY CONDITIONS. Journal of Thermal Stresses, 1985, 8, 425-434.	2.0	10
58	Adiabatic shearing of one-dimensional thermoviscoelastic flows caused by boundary and inertial forces. Engineering Analysis With Boundary Elements, 1985, 2, 205-210.	3.7	0
59	Adiabatic shearing flow caused by time dependent inertial force. Quarterly of Applied Mathematics, 1984, 42, 275-280.	0.7	17