Chun-Ron Chiang

List of Publications by Year
in descending order

32 papers	230 citations	1040056 9 h-index	1058476 14 g-index
33 all docs	33 docs citations	33 times ranked	110 citing authors

#	ARTICLE	IF	CITATIONS
1	On the yield strength of a ductile material reinforced with rigid spherical inclusions. Acta Mechanica, 2018, 229, 1971-1988.	2.1	5
2	Further results on Eshelby's tensor of an elliptic inclusion in orthotropic materials. Acta Mechanica, 2018, 229, 4831-4844.	2.1	6
3	Thermal stress at a circular hole in cubic crystals under uniform heat flow. Acta Mechanica, 2018, 229, 3963-3969.	2.1	2
4	On Eshelby's tensor in transversely isotropic materials. Acta Mechanica, 2017, 228, 1819-1833.	2.1	15
5	Predictions of elastic properties of reinforced polymers accounting for the agglomeration of fillers. Acta Mechanica, 2017, 228, 2933-2944.	2.1	2
6	Stress concentration of a crack-like spheroidal cavity lying on the prism plane of hexagonal crystals. Engineering Fracture Mechanics, 2017, 184, 218-226.	4.3	1
7	Eshelby's tensor of a cubic piezoelectric crystal under plane strain condition and its application to elliptic cavity problems. Acta Mechanica, 2017, 228, 595-606.	2.1	3
8	Stress concentration around a spherical cavity in transversely isotropic materials subjected to pure shear. Journal of Strain Analysis for Engineering Design, 2016, 51, 548-554.	1.8	1
9	Three-point geometric parameter for the transverse cross section of a fibrous composite. Acta Mechanica, 2016, 227, 1919-1926.	2.1	1
10	Eshelby's tensor for cubic piezoelectric crystals and its application to cavity problems. Engineering Fracture Mechanics, 2016, 155, 119-129.	4.3	1
11	Problems of polygonal inclusions in orthotropic materials with due consideration on the stresses at corners. Archive of Applied Mechanics, 2016, 86, 769-785.	2.2	8
12	Stress concentration around a triaxial ellipsoidal cavity in transversely isotropic materials. Archive of Applied Mechanics, 2015, 85, 469-479.	2.2	11
13	Eshelby's tensor and its connection to ellipsoidal cavity problems with application to 2D transformation problems in orthotropic materials. Acta Mechanica, 2015, 226, 2631-2644.	2.1	6
14	Subsurface crack problems in a cubic piezoelectric material. Engineering Fracture Mechanics, 2014, 131, 656-668.	4.3	3
15	Some half-space problems of cubic piezoelectric materials. International Journal of Solids and Structures, 2014, 51, 1046-1051.	2.7	6
16	Shielding of a crack tip by its nearby dislocations in cubic piezoelectric crystals. International Journal of Fracture, 2014, 188, 109-112.	2.2	1
17	Mode-III crack problems in a cubic piezoelectric medium. Acta Mechanica, 2013, 224, 2203-2217.	2.1	8
18	Electromechanical fields around a screw dislocation in a cubic piezoelectric crystal. Engineering Fracture Mechanics, 2013, 99, 191-201.	4.3	9

#	Article	IF	Citations
19	Torsion of a round shaft of variable diameter. Journal of Engineering Mathematics, 2012, 77, 119-130.	1.2	2
20	The Piezoelectric Potential of a Screw Dislocation in a Cubic Medium. International Journal of Fracture, 2012, 174, 229-236.	2.2	7
21	Computation of the bounds on the elastic moduli of a fiber-reinforced composite by Monte Carlo simulations. Acta Mechanica, 2011, 217, 257-267.	2.1	5
22	Stress concentration around a strongly oblate cavity in a cubic crystal and its associated crack problems. Engineering Fracture Mechanics, 2010, 77, 2813-2820.	4.3	2
23	Some elasticity problems of a general anisotropic solid subjected to anti-plane loadings. Acta Mechanica, 2009, 203, 49-61.	2.1	9
24	Bounds on the Transverse Effective Conductivity of a Fiberreinforced Composite. International Journal of Fracture, 2009, 159, 93-100.	2.2	2
25	Thermal mismatch stress of a cylindrical inclusion in a cubic crystal. Engineering Fracture Mechanics, 2008, 75, 2295-2307.	4.3	6
26	Stress concentration factors of a general triaxial ellipsoidal cavity. Fatigue and Fracture of Engineering Materials and Structures, 2008, 31, 1039-1046.	3.4	10
27	Stress concentration around a spherical cavity in a cubic medium. Journal of Strain Analysis for Engineering Design, 2007, 42, 155-162.	1.8	14
28	Nonlinear Behavior and Critical State of a Penny-Shaped Dielectric Crack in a Piezoelectric Solid. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 852-860.	2.2	28
29	Thermal Mismatch Stress of a Spherical Inclusion in a Cubic Crystal. International Journal of Fracture, 2006, 139, 313-317.	2.2	12
30	The Nature of Stress and Electric-displacement Concentrations around a Strongly Oblate Cavity in a Transversely Isotropic Piezoelectric Material. International Journal of Fracture, 2005, 134, 319-337.	2.2	22
31	Some crack problems in transversely isotropic solids. Acta Mechanica, 2004, 170, 1.	2.1	12
32	Stress concentration around a strongly oblate spheroidal cavity in a transversely isotropic medium. International Journal of Fracture, 2003, 119/120, L91-L97.	2.2	10