

Chun-Ron Chiang

List of Publications by Year in descending order

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docs citations

33
times ranked

110
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Behavior and Critical State of a Penny-Shaped Dielectric Crack in a Piezoelectric Solid. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2007, 74, 852-860.	2.2	28
2	The Nature of Stress and Electric-displacement Concentrations around a Strongly Oblate Cavity in a Transversely Isotropic Piezoelectric Material. <i>International Journal of Fracture</i> , 2005, 134, 319-337.	2.2	22
3	On Eshelby's tensor in transversely isotropic materials. <i>Acta Mechanica</i> , 2017, 228, 1819-1833.	2.1	15
4	Stress concentration around a spherical cavity in a cubic medium. <i>Journal of Strain Analysis for Engineering Design</i> , 2007, 42, 155-162.	1.8	14
5	Some crack problems in transversely isotropic solids. <i>Acta Mechanica</i> , 2004, 170, 1.	2.1	12
6	Thermal Mismatch Stress of a Spherical Inclusion in a Cubic Crystal. <i>International Journal of Fracture</i> , 2006, 139, 313-317.	2.2	12
7	Stress concentration around a triaxial ellipsoidal cavity in transversely isotropic materials. <i>Archive of Applied Mechanics</i> , 2015, 85, 469-479.	2.2	11
8	Stress concentration around a strongly oblate spheroidal cavity in a transversely isotropic medium. <i>International Journal of Fracture</i> , 2003, 119/120, L91-L97.	2.2	10
9	Stress concentration factors of a general triaxial ellipsoidal cavity. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2008, 31, 1039-1046.	3.4	10
10	Some elasticity problems of a general anisotropic solid subjected to anti-plane loadings. <i>Acta Mechanica</i> , 2009, 203, 49-61.	2.1	9
11	Electromechanical fields around a screw dislocation in a cubic piezoelectric crystal. <i>Engineering Fracture Mechanics</i> , 2013, 99, 191-201.	4.3	9
12	Mode-III crack problems in a cubic piezoelectric medium. <i>Acta Mechanica</i> , 2013, 224, 2203-2217.	2.1	8
13	Problems of polygonal inclusions in orthotropic materials with due consideration on the stresses at corners. <i>Archive of Applied Mechanics</i> , 2016, 86, 769-785.	2.2	8
14	The Piezoelectric Potential of a Screw Dislocation in a Cubic Medium. <i>International Journal of Fracture</i> , 2012, 174, 229-236.	2.2	7
15	Thermal mismatch stress of a cylindrical inclusion in a cubic crystal. <i>Engineering Fracture Mechanics</i> , 2008, 75, 2295-2307.	4.3	6
16	Some half-space problems of cubic piezoelectric materials. <i>International Journal of Solids and Structures</i> , 2014, 51, 1046-1051.	2.7	6
17	Eshelby's tensor and its connection to ellipsoidal cavity problems with application to 2D transformation problems in orthotropic materials. <i>Acta Mechanica</i> , 2015, 226, 2631-2644.	2.1	6
18	Further results on Eshelby's tensor of an elliptic inclusion in orthotropic materials. <i>Acta Mechanica</i> , 2018, 229, 4831-4844.	2.1	6

#	ARTICLE	IF	CITATIONS
19	Computation of the bounds on the elastic moduli of a fiber-reinforced composite by Monte Carlo simulations. <i>Acta Mechanica</i> , 2011, 217, 257-267.	2.1	5
20	On the yield strength of a ductile material reinforced with rigid spherical inclusions. <i>Acta Mechanica</i> , 2018, 229, 1971-1988.	2.1	5
21	Subsurface crack problems in a cubic piezoelectric material. <i>Engineering Fracture Mechanics</i> , 2014, 131, 656-668.	4.3	3
22	Eshelby's tensor of a cubic piezoelectric crystal under plane strain condition and its application to elliptic cavity problems. <i>Acta Mechanica</i> , 2017, 228, 595-606.	2.1	3
23	Bounds on the Transverse Effective Conductivity of a Fiberreinforced Composite. <i>International Journal of Fracture</i> , 2009, 159, 93-100.	2.2	2
24	Stress concentration around a strongly oblate cavity in a cubic crystal and its associated crack problems. <i>Engineering Fracture Mechanics</i> , 2010, 77, 2813-2820.	4.3	2
25	Torsion of a round shaft of variable diameter. <i>Journal of Engineering Mathematics</i> , 2012, 77, 119-130.	1.2	2
26	Predictions of elastic properties of reinforced polymers accounting for the agglomeration of fillers. <i>Acta Mechanica</i> , 2017, 228, 2933-2944.	2.1	2
27	Thermal stress at a circular hole in cubic crystals under uniform heat flow. <i>Acta Mechanica</i> , 2018, 229, 3963-3969.	2.1	2
28	Shielding of a crack tip by its nearby dislocations in cubic piezoelectric crystals. <i>International Journal of Fracture</i> , 2014, 188, 109-112.	2.2	1
29	Stress concentration around a spherical cavity in transversely isotropic materials subjected to pure shear. <i>Journal of Strain Analysis for Engineering Design</i> , 2016, 51, 548-554.	1.8	1
30	Three-point geometric parameter for the transverse cross section of a fibrous composite. <i>Acta Mechanica</i> , 2016, 227, 1919-1926.	2.1	1
31	Eshelby's tensor for cubic piezoelectric crystals and its application to cavity problems. <i>Engineering Fracture Mechanics</i> , 2016, 155, 119-129.	4.3	1
32	Stress concentration of a crack-like spheroidal cavity lying on the prism plane of hexagonal crystals. <i>Engineering Fracture Mechanics</i> , 2017, 184, 218-226.	4.3	1