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研究领域	压电材料动态断裂； 农业装备轻量化。			
社会兼职	无			
承担项目	1. 南京农业大学科研启动基金：含孔边裂纹的压电材料二维断裂问题研究(No. RCQD13-06)，2014.1-2016.12。 2. 南京农业大学青年科技创新基金：压电材料内任意形状孔孔边放射状（界面）裂纹的广义二维问题研究(KJ2013040)，2013/06-2015/05。 3. 南京农业大学中央高校基本业务费：混合断裂模式下压电材料内聚区模型参数的确定及其应用(KYZ201658)，2016/01-2018/12。			
学术成果	近期主要论文： [1] Yong-Jian Wang, C. Q. Ru*, Determination of two key parameters of a cohesive zone model for pipeline steels based on uniaxial stress-strain curve [J]. Engineering Fracture Mechanics 2016, 163, 55 - 65. [1] Yong-Jian Wang, Cun-Fa Gao*, Haopeng Song, The Anti-plane Solution for the Edge Cracks Originating from an Arbitrary Hole in a Piezoelectric Material, Mechanics Research Communications, 2015, 65: 17-23 [2] Yong-Jian Wang, Cun-Fa Gao*, Hao-Peng Song, Shi-Chao Xing, The Generalized Two Dimensional Thermal-Electro-Elastic Solution for the Cracked-Half-Elliptical-Hole Problem in a Half Plane, Journal of Theoretical and Applied Mechanics, 2015, 45(2): 21-44 [2] 王永健, 宋豪鹏*, 高存法, 邢时超, 双压电材料内含椭圆孔孔边界面裂纹的反平面问题, 力学季刊, 2015, 36(3): 416-426 [3] 王永健, 高存法*, 含等边三角形孔孔边裂纹横观各向同性压电弹性体的反平面问题研究, 应用力学学报, 2015, 32(6): 1-6 [3] Yong-Jian Wang, Cun-Fa Gao*, Thermoelastic solution for edge cracks originating from an elliptical hole in a piezoelectric solid, Journal of Thermal Stresses, 2012, 35(1-3): 138-156 [4] 王永健, 高存法*, 压电体内孔边裂纹的应力强度因子, 力学季刊, 2008, (2): 205-209 [4] Yong-Jian Wang, Cun-Fa Gao*, The mode III cracks originating from the edge of a circular hole in a piezoelectric solid, International Journal of Solids and Structures, 2008, 45: 4590-4599			
奖励荣誉	无			

Teaching staff/Personal information

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Research field	Dynamic fracture of piezoelectric materials Lightweight of Agricultural equipment			
Social appointments	None			
Research projects	<p>1. The Scientific Research Foundation, Nanjing Agricultural University: Research on the 2D piezoelectric materials contained a cracked hole. (No. RCQD13-06), 2014.1-2016.12.</p> <p>2. Science and Technology Innovation Fund for the Youth of Nanjing Agricultural University: General 2D problems of the cracks emanating from an arbitrary hole in piezoelectric materials. (KJ2013040), 2013/06-2015/05.</p> <p>3. Fundamental Research Funds for the Central Universities: Determination and application of the cohesive zone model for the mixed fracture problems in the piezoelectric materials (KYZZ201658), 2016/01-2018/12.</p>			
Academic achievements	<p>Published papers:</p> <p>[1] Yong-Jian Wang, C.Q. Ru*, Determination of two key parameters of a cohesive zone model for pipeline steels based on uniaxial stress-strain curve. <i>Engineering Fracture Mechanics</i> 2016, 163, 55–65.</p> <p>[2] Yong-Jian Wang, Cun-Fa Gao*, Haopeng Song, The Anti-plane Solution for the Edge Cracks Originating from an Arbitrary Hole in a Piezoelectric Material, <i>Mechanics Research Communications</i>, 2015, 65: 17-23</p> <p>[3] Yong-Jian Wang, Cun-Fa Gao*, Hao-Peng Song, Shi-Chao Xing, The Generalized Two Dimensional Thermal-Electro-Elastic Solution for the Cracked-Half-Elliptical-Hole Problem in a Half Plane, <i>Journal of Theoretical and Applied Mechanics</i>, 2015, 45(2): 21-44</p> <p>[4] Yong-Jian Wang, Hao-Peng Song*, Cun-Fa Gao, Shi-Chao Xing, The Anti-plane Problem for a Cracked Elliptical Hole at the Interface of Bi-materials, <i>Chinese Quarterly of Mechanics</i>, 2015, 36(3): 416-426 (in Chinese)</p> <p>[5] Yong-Jian Wang, Cun-Fa Gao*, The anti-plane solution for the cracked equilateral triangle hole in transverse isotropic piezoelectric materials, <i>Chinese Journal of Applied Mechanics</i>, 2015, 32(6): 1-6 (in Chinese)</p> <p>[6] Yong-Jian Wang, Cun-Fa Gao*, Thermoelastoelectroelastic solution for edge cracks originating from an elliptical hole in a piezoelectric solid,</p>			

	<p>Journal of Thermal Stresses, 2012, 35(1-3): 138-156</p> <p>[7] Yong-Jian Wang, Cun-Fa Gao*, Stress intensity factors for radial cracks originating from the a circular hole in a piezoelectric solid, Chinese Quarterly of Mechanics, 2008, (2): 205-209 (in Chinese)</p> <p>[8] Yong-Jian Wang, Cun-Fa Gao*, The mode III cracks originating from the edge of a circular hole in a piezoelectric solid, International Journal of Solids and Structures, 2008, 45: 4590-4599</p>
Reward & honor	None