



网站栏目

- 团队新闻
- 学术活动
- 论文发表

团队研究方向

结构完整性理论
先进连接/表面技术
微(小)化学机械系统
化学—机械力学行为
后续能源与传感技术
结构完整性监测技术
材料细观设计理论

用户登录

姓名 密码

站内检索

站内链接

- 研究园地
- 博士后科研流动站
- 教育部重点实验室
- 化工机械研究所

友情链接

- 华东理工大学
- 图书馆
- 机械与动力工程学院
- 中国结构完整性联盟

Publications in 2012

- Sun L, Luan WL, Shan YJ. A composition and size controllable approach for Au-Ag alloy nanoparticles. *Nanoscale Research Letters* 2012; ():1-14.
- Fu HH, Choi MJ, Luan WL, Kim Y-S, Tu ST. Hybrid solar cells with an inverted structure: nanodots incorporated ternary system. *Solid-State Electronics* 2012; 36():50-54.
- Yuan BX, Luan WL, Tu ST. One-step solvothermal synthesis of nickel selenide series: composition and morphology control. *CrystEngComm* 2012; 14(6):2145-2151.
- Yuan BX, Luan WL, Tu ST. One-step synthesis of cubic FeS₂ and flower-like FeSe₂ particles by a solvothermal reduction process. *Dalton Transactions* 2012; 41(3):772-776.
- Sun L, Luan W, Shan YJ, Tu ST. One-step synthesis of monodisperse Au-Ag alloy nanoparticles in a microreaction system. *Chemical Engineering Journal* 2012; 180-190(2012):451-455.
- Wang GZ, Li BK, Xuan FZ, Tu ST. Numerical investigation on the creep crack-tip constraint induced by loading configuration of specimens. *Engineering Fracture Mechanics* 2012; 79():353-362.
- Liu CH, Qin XC, Xuan FZ. All set theory in the fuzzy-random crack structure. *Procedia Earth and Planetary Science* 2012; 5():120-123.
- Jia YF, Xuan FZ. Anisotropic wear behavior of human enamel at the rod level in terms of nanoscratching. *Wear* 2012; ():1-51.
- Xiang YX, Deng MX, Xuan FZ, Liu CJ. Effect of precipitate-dislocation interactions on generation of nonlinear lamb waves in creep-damaged metallic alloys. *Journal Applied Physics* 2012; (111):.
- Zheng YT, Xuan FZ, Wang ZD. In-situ Raman monitoring of stress evaluation and reaction in Cu₂O oxide layer. *Materials Letters* 2012; 78(1):11-13.
- Zhao P, Xuan FZ. Ratchetting behavior of advanced 9-12% chromium ferrite steel under creep-fatigue loadings: fracture modes and dislocation patterns. *Materials Science and Engineering A* 2012; 539():301-307.
- Zheng XT, Xuan FZ. Shakedown of thick cylinders with radial openings under thermo-mechanical loads. *ASME, Journal of Pressure Vessel Technology* 2012; 134(1):112051-112057.
- Lin Y, Yu XH, Wang ZY, Tu ST, Wang ZD. Design and evaluation of an easily fabricated micromixer with three-dimensional periodic perturbation. *Chemical Engineering Journal* 2012; 171():291-300.
- Lv YX, Yu XH, Jia JJ, Tu ST, Yan JY, Erik Dahlquist. Fabrication and characterization of superhydrophobic polypropylene hollow fiber membranes for carbon dioxide absorption. *Applied Energy* 2012; 90(1):167-174.
- Lin Y, Yu XH, Wang ZY, Tu ST, Wang ZD. Laminar flow diffusion interface control in a microchannel with accurate Raman measurement. *Chemical Engineering and Processing* 2012; 57-58():1-7.
- Maharjan S, Zhang XC, Wang ZD. Effect of oxide growth strain in residual stresses for the deflection test of single surface oxidation of alloys. *Oxidation of Metals* 2012; 77():93-106.
- Liu ZD, Zhang XC, Xuan FZ, Wang ZD, Tu ST. In situ synthesis of TiN/Ti₃Al intermetallic matrix composite coatings on Ti6Al4V alloy. *Materials & Design* 2012; 37():268-272.
- Xu JS, Zhang XC, Xuan FZ, Wang ZD, Tu ST. Microstructure and sliding wear resistance of laser cladded WC/Ni composite coatings with different contents of WC particle. *Journal of Materials Engineering and Performance* 2012; 21(4):1-8.
- Zhu ML, Xuan FZ. Influence of microstructure and microdefects on long-term fatigue behavior of a Cr-Mo-V steel. *Materials Science and Engineering A* 2012; 546():90-96.
- Zhu ML, Xuan FZ, Tu ST. Interpreting load ratio dependence of near-threshold fatigue crack growth by a new crack closure model. *13th International Conference on Pressure Vessel Technology, London* 2012; ():1-9.
- Zhu ML, Xuan FZ. Very high cycle fatigue behavior of a low strength welded joint at moderate temperature. *International Journal of Fatigue* 2012; 40():74-83.
- Yang J, Wang GZ, Xuan FZ, Tu ST. Unified characterization of in-plane and out-of-plane constraint based on crack-tip equivalent plastic strain. *Fatigue & Fracture of Engineering Materials and Structures* 2012; (doi: 10.1111/ffe.12019):.
- Gong N, Wang GZ, Xuan FZ, Tu ST. Effects of initial crack location on failure assessment curves in dissimilar metal weld joints in nuclear power plants. *Journal of Pressure Vessel Technology* 2012; 134(6):061405.
- Tan JP, Wang GZ, Xuan FZ, Tu ST. Correlation of creep crack-tip constraint between axially cracked pipelines and test specimens. *International Journal of Pressure Vessels and Piping* 2012; 98():16-25.
- Sun PJ, Wang GZ, Xuan FZ, Tu ST, Wang ZD. Three-dimensional numerical analyses of out-of-plane creep crack-tip constraint in compact tension specimens. *International Journal of Pressure Vessels and Piping* 2012; 96-97():78-89.

- Wang HT, Wang GZ, Xuan FZ, Liu CJ, Tu ST. Local mechanical properties and microstructures of Alloy52M dissimilar metal welded joint between A508 ferritic steel and 316L stainless steel. *Advanced Materials Research* 2012; 509():103-110.
- Yuan BX, Hou XQ, Han YL, Luan WL, Tu ST. Facile synthesis of flake-like FeSe₂ particles in open-air conditions. *New Journal of Chemistry* 2012; 36 ():2101-2105.
- Luan WL, Yang HW, Wan Z, Yuan BX, Yu XH, Tu ST. Mercaptopropionic acid capped CdSe/ZnS quantum dots as fluorescence probe for lead (II). *Journal of Nanoparticle Research* 2012; 14(3):DOI: 10.1007/s11051-012-0762-3.
- Fu HH, Luan WL, Tu ST. A simple route for synthesis of PbSe nanocrystals: shape control by ligand and reaction time. *Dalton Transactions* 2012; 41 (39):12254-12258.
- Hu XY, Jia JH, Wang N, Xia XM, Wang ZD, Tu ST. Design and test of an extensometer for strain monitoring of high temperature pipelines. *ASME Tran. Journal of Pressure Vessel and Pipes* 2012; 134(4):044501.

1 2 3

CheMech Copyright 2002-2013