



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

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姓名 密码

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 搜索

站内链接

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- 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 2008

- Luan WL,Yang HW, Fan NN, Tu ST. Synthesis of efficiently green luminescent CdSe/ZnS nanocrystals via microfluidic reaction. *Nanoscale Research Letters* 2008; 3(4):134-139.
- Yang HW,Luan WL,Tu ST,M.Wang ZM. Synthesis of nanocrystals via microreaction with temperature gradient: towards separation of nucleation and growth. *Lab on a Chip* 2008; 8():451-455.
- Xu T, Huang H, Luan WL,Qi YS, Tu ST. Thermoelectric carbon monoxide sensor using Co-Ce catalyst. *Sensors and Actuators B-Chemical* 2008; 133 (1):70-77.
- Huang H,Luan WL,Zhang JS,Qi YS,Tu ST. Thermoelectric hydrogen sensor working at room temperature prepared by bismuth telluride P-N couples and Pt/y-Al₂O₃. *Sensors and Actuators B-Chemical* 2008; 128(2):581-585.
- Chen H, Gong JM, Tu ST, Jiang WC. Diffusion-based analytical modeling of brazing stainless steel with BNi-2. *Journal of Computational and Theoretical Nanoscience* 2008; 5(8):1746-1752.
- Jiang WC, Gong JM, Tu ST, Chen H . Effect of geometric conditions on residual stress of brazed stainless steel plate-fin structure. *Nuclear Engineering and Design* 2008; 238(7):1497-1502.
- Li SX, Xuan FZ, Tu ST. Fatigue damage of stainless steel diffusion bonded joints. *Materials Science and Engineering* 2008; 48(1-2):125-129.
- Jiang WC, Gong JM, Chen H, Tu ST. Finite element analysis of the effect of brazed residual stress on creep for stainless steel plate-fin structure. *Journal of Pressure Vessel Technology-Transactions of the ASME* 2008; 130(4):..
- Jiang WC, Gong JM, Chen H, Tu ST. Residual stress in brazed stainless steel plate-fin structure and its influencing factor. *Acta Metallurgica Sinica* 2008; 44(1):105-111.
- Chen H, Gong JM, Tu ST, Geng LY. Study of parameter effects on residual stresses and thermal deformation of brazed plate-fin structure using finite element method. *Journal of Pressure Vessel Technology-Transactions of the ASME* 2008; 130(4):..
- Li JW, Yang GS, Zhang WJ, Tu ST, Chen X B. Thermal effect on piezoelectric stick-slip actuator systems. *Review of Scientific Instruments* 2008; 79 (4):..
- Guozhen Wang,Wang YL, Xuan FZ, Tu ST, Wang ZD. Cleavage fracture behavior of a C-Mn vessel steel at various loading rates in notched specimens. *International Journal of Pressure Vessels and Piping* 2008; 85(10):720-727.
- Si J,Xuan FZ, Tu ST. A numerical creep analysis on the interaction of twin semi-elliptical cracks. *International Journal of Pressure Vessels and Piping* 2008; 85(7):459-467.
- Xuan FZ, Huang XQ, Tu ST. Comparisons of 30Cr2Ni4MoV rotor steel with different treatments on corrosion resistance in high temperature water. *Materials & Design* 2008; 29(8):1533-1539.
- Chen QQ, Xuan FZ, Tu ST. Effects of creep on interfacial stresses of bonded structures. *Materials Science and Engineering a-Structural Materials Properties Microstructure and Processing* 2008; 497(1-2):471-478.
- Liu X, Xuan FZ, Si J, Tu ST. Expert system for remnant life prediction of defected components under fatigue and creep-fatigue loadings. *Expert Systems with Applications* 2008; 34(1):222-230.
- Li SX, Xuan Fz,Z Tu ST, Yu SR. Microstructure evolution and interfacial failure mechanism in 316LSS diffusion bonded joints. *Materials Science and Engineering* 2008; 491(1-2):488-491.
- Xuan FZ, Si J, Tu ST. Surface effects on time-dependent fracture parameter of subsurface crack in plates under tension. *International Journal of Fracture* 2008; 153(3):117-123.
- Zhang XC, Xu BS,Tu ST,Xuan FZ,Zhang HD,Wu YX. Rolling contact fatigue behavior of plasma-sprayed CrC-NiCr cermet coatings. *Wear* 2008; 265 (11/12):1875-1883.
- Zhang XC,Xu BS,Tu ST,Xuan FZ. Analysis on multiple cracking in film/substrate systems with residual stresses. *Journal of Applied Physics* 2008; 103(023519):1-9.
- Zhang XC,Xu BS, Wang HD,Wu YX. Effect of graded interlayer on the mode I edge delamination by residual stresses in multilayer coating-based systems. *Applied Surface Science* 2008; 254(7):1881-1889.
- Zhang XC, Xu BS,Tu ST,Xuan FZ,Zhang HD,Wu YX. Effect of spraying power on the microstructure and mechanical properties of supersonic plasma-sprayed Ni-based alloy coatings. *Applied Surface Science* 2008; 254(20):6318-6326.
- Zhang XC,Xu BS, Wang HD,Wu YX. Fatigue resistance of plasma-sprayed CrC-NiCr cermet coatings in rolling contact. *Applied Surface Science* 2008; 254(13):3734-3744.
- Zhang XC, Xuan FZ, Zhang YK, Tu ST. Multiple film cracking in film/substrate systems with mismatch strain and applied strain. *Journal of Applied*

- Zhang XC,Xu BS, Wu YX,Xuan FZ,Tu ST. Porosity, mechanical properties, residual stresses of supersonic plasma-sprayed Ni-based alloy coatings prepared at different powder . Applied Surface Science 2008; 254(13):3879-3889.
- Zhang XC,Xu BS, Xuan FZ. Residual stresses in the elastoplastic multilayer thin film structures: the cases of Si/Al bilayer and Si/Al/SiO₂ trilayer structures. Journal of Applied Physics 2008; 103(073505):1-7.
- Zhou GY, Wu E, Tu ST. Techno-economic study on compact heat exchangers. International Journal of Energy Research 2008; 32(12):1119-1127.
- . Risk Assessment Practice in China. 2008; ():.
- . Chemical Engineering Education in China. 2008; ():.
- . Chinese experiences in the use and development of P/T91 steels. 2008; ():.

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