Meilan Qi

School of Science, Wuhan University of Technology

Luoshi Road 112, Wuhan, Hubei Province, 430070

P. R. China

Cell phone: (86) 136 5986 6253

Email: qiml@whut.edu.cn

EDUCATION

Ph.D., Solid Mechanics, Wuhan University of Technology, 2007

Area of Specialization: Dynamic damage and fracture

M.S., Solid Mechanics, Wuhan University of Technology, 2001

Area of Specialization: Fatigue fracture of materials and Remote control

B.S., Mechanical Manufacture and Automation, Wuhan University of Technology, 1997

EMPLOYMENT

July, 2001 – present, School of Science, Wuhan University of Technology, Wuhan, China (currently Associate Professor).

RESEARCH INTERESTS

Dynamic damage and fracture of materials; materials science
Experimental developments – diagnostics and loading techniques

RESEARCH PROJECTS IN CHARGE

1. "*Materials characterization and research of dynamic damage evolution for ductile metals,*" 2011, National Natural Science Foundation of China, Grant No. 11172221, PI.
2. "*Physical mechanism and damage evolution law of tensile fracture for ductile metals,*" 2010, National Natural Science Foundation of China, Grant No. 10876014, Co-I.
3. "*Study on the effect mechanism of grain boundaries and texture on damage nucleation of ductile metal,*" the Fundamental Research Funds for the Central Universities, Grant No.

2012Ia004, PI.

4. "*Study on micro-mechanism of tensile dynamic damage of ductile metal,*" the Fundamental Research Funds for the Central Universities, Grant No. 2010Ia017, PI.

PUBLICATIONS

Book

Chinese translation of the book "*Solids under High-Pressure Shock Compression*" written by R.A. Graham (translated by H.L. He and M.L. Qi).

Journals

1. M.L. Qi, C. Luo, H.L. He, Y.G. Wang, D. Fan and S.L. Yan. *Damage Property of the Incompletely Spalled Aluminum under Shock Wave Loading*, J. Appl. Phys., 2012, 111:043506.
2. M.L. Qi, S. Zhong, D. Fan, C. Luo and H.L. He. *Microscopic Characteristics of Damage Evolution in Ultrapure Aluminum under Tensile Loading*, Chin. Phys. Lett., 2011, 28(1):016103.
3. M.L. Qi, C. Luo Chao, D. Fan and H.L. He. *Analysis on Characteristics of Free Surface Velocity Profile of Ultra pure Aluminum*, Chin. J. High Press. Phys., 2011, 25(6):487-492.
4. D. Fan and M.L. Qi. *Damage Distribution of High Purity Aluminum under the Impact Loading*, Adv. Mater. Res. 2011, 160-162 :1001-1005.
5. M.L. Qi and H.L. He. *Simulation of Critical Behavior on Damage Evolution*, Chin. Phys. B, 2010, 19(3):036201.
6. M.L. Qi and H.L. He. *Statistic Analysis of Damage Distribution in Ductile Metals under Dynamic Impact*, J. Wuhan Univ. Tech., 2008.30(8):23-26.
7. M.L. Qi, H.L. He, Y.G. Wang and S.L. Yan. *Simulation of Micro Void Evolution in the Aluminum under Dynamic Loading*, J. Vibration and Shock, 2007, 26(8):133-135.
8. M.L. Qi, H.L. He. Y.G. Wang and S.L.Yan. *Dynamic Analysis of Helium Bubble Growth in the Pure Al under High Strain Rate Loading*, Chin. J. High Press. Phys., 2007, 21(3):145-150.
9. M.L. Qi, H.L. He and S.L. Yan. *Effect of Temperature on the Void Growth in Pure Aluminium at High Strain-Rate Loading*. Chin. Phys.Lett., 2007, 24(8):2271-2273.
10. M.L. Qi, H.L. He and S.L. Yan. *Measurement and Analysis of Spall Characteristics of High-Pure Aluminium at One-Dimensional Strain Loading*. Chin. Phys. Lett., 2007, 24(8):2338-2340.
11. M.L. Qi, H.L. He and S.L. Yan. *Critical fracture behavior of high purity aluminum under impact loading*, Acta Physica Sinica, 2007, 56(10):5965-5968.