

Resume

Wei Zhao, Ph.D

OFFICE ADDRESS

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HOME ADDRESS

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OBJECTIVE

My preferred position will be a job offer or internship of research and development in the application of high temperature iron-based or nickel-based materials, (e.g. aircraft turbine engines or aerospace structure/coating materials, power generation system).

FIELDS OF SPECIALITY

Thermodynamics. Kinetics in gas and solid phase. Diffusion (Heat transfer). Structure of materials. Mechanical behavior of materials.

EDUCATION

Tsinghua University, Beijing, B.S., Materials Science and Engineering, 2004
Tsinghua University, Beijing, M.S., Materials Science and Engineering, 2006
Iowa State University, Ames, Ph.D. Candidate, Materials Science and Engineering, 2006-2008 (Brian Gleeson, co-advisor)
University of Pittsburgh, Pittsburgh, Ph.D., Mechanical Engineering and Materials Science, 2008-now (Brian Gleeson, advisor)

TRAINING IN ENGLISH LANGUAGE

Test of English as a Foreign Language (TOEFL) Score, 623/670, August 2005

HONORS and AWARDS

Runner-up of best poster competition, Gordon Research Conference, 2009
"Kang Hong" Scholarship for Excellent Graduate Student in Tsinghua University, 2nd Prize, December 2003.
Scholarship for Excellent Social Activity of Tsinghua University, December 2002
Scholarship of "Friends of Tsinghua-Xi Yue", 2nd Prize, December 2001

Resume

RESEARCH EXPERIENCE

1. Participated in the Project of *fundamental study on the high temperature growth kinetics of oxides formed on multi-component alloys used for gas turbines.*
2. Participated in the Project of *moisture effect(s) on high temperature oxidation of alumina-scale forming Ni-base alloys.*
3. Participated in the Project of *non-destructive evaluation (NDE) of internal oxidation of alloys via eddy-current detection.*
4. Participated in the Project of *Study of novel high temperature perovskite piezoelectric materials* supported by the National Natural Science Foundation of China.
5. Participated in the Project of *the nano/submicro-grain size effect and controlling principle for functional ceramics* supported by the Ministry of Sciences and Technology of China through 973-project.

PUBLICATIONS

Wei Zhao, Xiaohui Wang, Junjie Hao, Hai Wen, Longtu Li, Preparation and characterization of nanocrystalline $(1-x)\text{BiScO}_3-x\text{PbTiO}_3$ Powder, Journal of the American Ceramic Society, 2007

Wei Zhao, Xiaohui Wang, Longtu Li, Zhilun Gui, Synthesis of Nanosized $(1-x)\text{BiScO}_3-x\text{PbTiO}_3$ Ferroelectric Ceramic Powders, Journal of Electroceramics (Asian Meeting on Electroceramics), 2009.

Wei Zhao, Xiaohui Wang, Zhilun Gui, Longtu Li, Properties of ultrafine high Curie temperature $(1-x)\text{BiScO}_3-x\text{PbTiO}_3$ ferroelectric ceramics, Key Engineering Materials, (High-performance Ceramics IV), 2008