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Engineering & Scientific Consulting

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专业背景

尹博士的专业领域包括热力学分析, 材料扩散, 冶金学, 材料表征, 失效分析, 以及合金的腐蚀, 尤其是金属间化合物的相关领域。在毅博科技, 他专注于金属和陶瓷材料的断裂分析, 焊接和焊接点阵的相关问题, 污染分析, 电子产品中的材料腐蚀, 以及电池阴极阳极材料的表征。

他的博士课题是金属间化合物的热力学研究。通过粉末冶金和电弧熔炼方法制备样品, 并使用量热仪, X 射线衍射仪, 膨胀测量仪, 电子显微镜和能谱仪进行表征。测得的热力学性质汇编成了数据库, 用于材料设计 and 应用。

在加入毅博科技之前, 尹博士是世界领先的汽车轮毂生产商中信戴卡有限公司的工艺管理工程师。他管控热加工区域的工艺参数的设计与优化, 包括添加合金元素的成分, 热处理温度, 以及其他工艺条件和参数。同时, 他领导了一个小组进行新工厂的热加工区域的设计, 包括工艺流程, 工艺布局, 工艺参数, 设备指标, 以及人员培训。

学术背景

博士, 材料科学与工程专业, 伊利诺伊理工, 2015

学士, 粉体材料科学与工程专业, 中南大学, 2010

语言

普通话

发表论文

Ming Yin, P. Nash, J. A. Kaduk, J. C. Schuster, Experimental investigation of the Fe-Sn-Ti ternary phase diagram at 873 K, J. Alloys Compd. 693 (2017) 76-86

Ming Yin, J. Hasier, P. Nash, A Review of Phase equilibria in Heusler alloy systems containing Fe, Co, Ni, J Mat. Sci. 51 (2016) 50-70

Ming Yin, P. Nash, W. Chen, S. Chen, Standard enthalpies of formation of selected Ni₂YZ Heusler compounds, J. Alloys Compd. 660 (2016) 258-265

Ming Yin, P. Nash, The effect of an additional X element (Co, Cu, Fe, Pd) on the standard enthalpy of formation of the Heusler compound Ni₂MnSn, J Alloys Compd. 667 (2016) 184-190

Ming Yin, P. Nash, Enthalpies of formation of selected Fe₂YZ Heusler compounds, Intermetallics. 57 (2015) 34-40

Ming Yin, P. Nash, Enthalpies of formation of selected Pd₂YZ Heusler compounds, Intermetallics. 58 (2015) 15-19

Ming Yin, P. Nash, Standard enthalpies of formation of selected Ru₂YZ Heusler compounds, J. Alloys Compd. 634 (2015) 70-74

Ming Yin, P. Nash, Standard enthalpies of formation of selected XYSn half-Heusler compound, J. Chem. Thermodynamics 91 (2015) 1-7

Ming Yin, P. Nash, Standard enthalpies of formation of selected Rh₂YZ Heusler compounds, J. Alloys Compd. 650 (2015) 925-930

Ming Yin, S. Chen, P. Nash, Enthalpies of formation of selected Co₂YZ Heusler compounds, J. Alloys Compd. 577 (2013) 49-56

Ming Yin, P. Nash, S. Chen, Heat capacities of several Co₂YZ Heusler compounds, Thermochi. Acta, 574c (2013) 79-84

Ming Yin, Y. Du, C. Cui, H. Xu, L. Zhang, S. Liu, Diffusivities and atomic mobilities in fcc Al-Cu-Mn alloys, Int. J. Mater. Res. 103 (2011) 807-813

会议展示

2015.5 CALPHAD XLIV Loana, Italy

- The Effect of a Fourth Element (Pd, Al) on the Standard Enthalpies of Formation of the Heusler Compounds Ni₂MnSn

2014.6 CALPHAD XLIII Changsha, Hunan

- Standard Enthalpies of Formation of Half-Heusler Compounds XYSn (X = Co, Fe, Ir, Ni, Pd, Pt; Y = Hf, Mn, Ti, V, Zr)

2013.10 MS&T Montreal, Canada

- Experimental Determination of Enthalpies of Formation and Specific Heats to Populate a Thermodynamic Database

2013.3 AMAPPE Jacksonville, FL

- Collaboration on Scientific Research Course

2012.10

MS&T

Pittsburgh, PA

- Enthalpies of Formation and Heat Contents of Heusler Alloys Co_2TiZ (Z= Al, Ga, Ge, Si, Sn)

审稿期刊

Archives of Metallurgy and Materials

Computational Materials Science

Journal of Magnetism and Magnetic Materials

Journal of Material Science

Journal of Materials Engineering and Performance

Material Science and Engineering with Advanced Research- Electronic

Physica Status Solidi C: Current Topics in Solid State Physics

Thermochimica Acta