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Professor

B.S. in Materials Science and
Engineering, National Cheng
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M.S. in Metallurgy and Materials
Science, University of
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Engineering, University of
California, Berkeley

Research and Professional Interests

1. Thermodynamics and kinetics of materials
2. High-temperature, Intermetallic, and entropy alloys
3. High-temperature metallurgical reactions

Projects (started from 2009)

SCI Papers

1. C. C. Jain and **C. H. Koo**, "Creep Behavior of Extruded Sheets of Magnesium Alloys Containing La-rich Mischmetal", *Mater. Trans.*, 47, 433 (2006)
2. C. J. Zhan and **C. H. Koo**, "Creep behavior of Ti-40Al-16Nb intermetallic alloy and strengthening effects of minor Sc", *Mater. Trans.*, 47, 440 (2006)
3. C. Y. Bai and **C. H. Koo**, "Effects of kerosene or distilled water as dielectric on electrical discharge alloying of superalloy Haynes 230 with Al-Mo composite electrode," *Surface and Coatings Technology*, 200, 12-13, 4127 (2006)
4. T. Hong and **C. H. Koo**, "Microstructure observation of brazing Ti-6Al-4V and C103 using Ti-20Cu-20Ni-20Zr filler-metal", *International Journal of Refractory Metal and Hard Materials*, 24, 247 (2006).
5. C. J. Zhan, T. H. Yu and **C. H. Koo**, "Creep behavior of Ti-40Al-10Nb titanium aluminide intermetallic alloy", *Mater. Sci. Eng. A*, 435-436, 698 (2006).
6. C. J. Zhan, T. H. Yu and **C. H. Koo**, "Effects of high niobium addition on the microstructural and high-temperature properties of Ti-40Al-xNb alloy", *Mater. Trans.*, 47, 2588 (2006).
7. C. C. Jain and **C. H. Koo**, "Creep and Corrosion properties of the Extruded Magnesium Alloy Containing Rare earth", *Mater. Trans.*, 48, 2, 265 (2007)
8. S. W. Chen, and **C. H. Koo**, "ITO-Ag Alloy-ITO Film with Stable and High Conductivity depending on the Control of Atomically Flat Interface", *Mater.*

Lett., 61, 4097 (2007)

9. C. C. Jain, C. Y. Bai, S. W. Chen, and **C. H. Koo**, “The Microstructure and Mechanical Properties of AZ31-xRE Magnesium Alloys”, *Mater. Trans.*, 48, 5, 1149 (2007)
10. S. W. Chen, C. Y. Bai, C. C. Jain, C. J. Zhan and **C. H. Koo**, “Durability of Indium Tin Oxide-Silver-Indium Tin Oxide Films against Moisture Investigated Through the Wettability of the Top Oxide Layer”, *Mater. Trans.*, 48, 8, 2230 (2007)

Non-SCI Papers

1. 簡朝棋、**顧鈞豪**、楊萬騏、白清源，95 年 5 月，“AZ80 鎂合金擠製板材之超塑性吹氣成型”，鎂合金產業通訊，第 33 期，40 (2006).
2. 簡朝棋、白清源、楊萬騏、洪衛朋、陳世偉、**顧鈞豪**，96 年 4 月，“Mg-8Al-xRE 擠製鎂合金微結構與潛變性質之研究”，金屬熱處理，第 92 期，17 (2007).
3. 簡朝棋、白清源、蔣龍仁、李江浩、**顧鈞豪**，96 年 9 月，“AZ31-xRE 鎂合金顯微結構觀察與機械性質之研究”，金屬熱處理，第 94 期，10 (2007).

Domestic Conference Papers

1. 簡朝棋、**顧鈞豪**、白清源，鑄造鎂合金 AZ31-xRE 之顯微結構與熱穩定性質研究，台灣鎂合金協會 2006 年年會論文集，台北 (2006)。
2. 簡朝棋、**顧鈞豪**、楊萬騏、白清源、王敬堯，鑄造鎂合金 AZ31-xRE 之顯微結構、熱穩定性與壓縮性質之研究，中國材料科學學會 2006 年年會論文集，台南 (2006)。(佳作獎)
3. 白清源、簡朝棋、楊萬騏、**顧鈞豪**，Effects of electrical discharge alloying of superalloy Haynes 230 with Al-Mo electrode on oxidation behavior，中國材料科學學會 2006 年年會論文集，台南 (2006)。
4. 簡朝棋、楊萬騏、白清源、**顧鈞豪**、賀克勤，稀土元素的添加對 Mg-8Al 合金 CO₂ 雷射銲接及機械性質之影響，中國材料科學學會 2007 年年會論文集，新竹 (2007)。