



NG Chun, Curtis (Ir Dr.)

Technical Support Group Leader

Engineering Manager

PhD, MSc, BEng, CEng, MIMechE, MHKIE, MASME

✉ mmcng@polyu.edu.hk

🏢 FG 627

☎ 2766 6652

Short Description:

Dr Ng is currently Engineering Manager of the Department of Mechanical Engineering at the Hong Kong Polytechnic University. He obtained his BEng degree and part-time MSc degree from the Hong Kong University of Science and Technology (HKUST) in 2002 and 2004, respectively. He obtained his part-time PhD degree from the Hong Kong Polytechnic University in 2014. After graduating in 2002, he worked as a project assistant in the Department of Mechanical Engineering in the HKUST. In 2004, he worked as a project engineer in Advanced Packaging Technology Ltd., and he was responsible for the mechanical design of high-power flip chip LED. In 2006, he joined in ASM Pacific Technology Ltd. and worked as a process engineer. He was responsible for designing experiment to evaluate custom-made modules of integrated circuit testing handlers. Dr. Ng joined the Hong Kong Polytechnic University in 2007 and he was appointed as a technical officer. He was promoted to senior technical officer and engineering manager in 2015 and 2023, respectively.

Selected Publications: ([Google citation](#))

1. J.Y. Zheng, H.P. Yang, M.W. Fu and **C. Ng**. Study on size effect affected progressive microforming of conical flanged parts directly using sheet metals. *Journal of Materials Processing Technology* 272, pp. 72-86, 2019.
2. D. H. K. Chow, P. K. Suen, L. Huang, W. Cheung, K. Leung, **C. Ng**, S. Q. Shi, M. W. N. Wong and L. Qin. Extracorporeal shockwave enhanced regeneration of fibrocartilage in a delayed tendon-bone insertion repair model. *Journal of Orthopaedic Research* 32(4), pp. 507-514, 2014.
3. **C. Ng**, S. Guo, J.H. Luan, Q. Wang, J. Lu, S. Q. Shi and C. T. Liu. Phase stability and tensile properties of Co-free $\text{Al}_{0.5}\text{CoCrCuFeNi}_2$ high entropy alloys. *Journal of Alloys and Compounds* 584, pp. 530-537, 2014.
4. S. Guo, **C. Ng**, Z. J. Wang and C.T. Liu. Solid solutioning in equiatomic alloys: Limit set by topological instability. *Journal of Alloys and Compounds* 583, pp. 410-413, 2014.
5. S. Guo, **C. Ng** and C. T. Liu. Sunflower-like solidification microstructure in a near-eutectic high-entropy alloy. *Materials Research Letters* 1 (4), pp. 228-232, 2013
6. S. Guo, Q. Hu, **C. Ng** and C. T. Liu. More than entropy in high-entropy alloys: Forming solid solutions or amorphous phase. *Intermetallics* 41, pp.96-103, 2013.
7. S. Guo, **C. Ng** and C. T. Liu. Anomalous solidification microstructures in Co-free $\text{Al}_x\text{CrCuFeNi}_2$ high-entropy alloys. *Journal of Alloys and Compounds* 557, pp. 77-81, 2013.
8. **C. Ng**, S. Guo, J.H. Luan, S. Q. Shi and C. T. Liu. Entropy-driven phase stability and slow diffusion kinetics in an $\text{Al}_{0.5}\text{CoCrCuFeNi}$ high entropy alloy. *Intermetallics* 31, pp. 165-172, 2012.
9. S. Guo, **C. Ng**, J. Lu and C. T. Liu. Effect of valence electron concentration on stability of fcc or bcc phase in high entropy alloys. *Journal of Applied Physics* 109(10), 103505, pp. 1-5, 2011.