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Short Description:

Dr. Ng obtained his BEng degree in 2002 and part-time MSc degree in 2004, from the Hong Kong University of Science and Technology (HKUST). 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. He was appointed as a technical officer. He was promoted to deputy technical support group leader and interim technical support group leader in 2012 and 2014 respectively. Currently, he is a senior technical officer and technical support group leader in the Department of Mechanical Engineering.

Selected Publications: [\(Google Citation\)](#)

1. 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.
2. **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 $Al_{0.5}CoCrCuFeNi_2$ high entropy alloys. *Journal of Alloys and Compounds* 584, pp. 530-537, 2014.
3. 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.
4. 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
5. 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.
6. S. Guo, **C. Ng** and C. T. Liu. Anomalous solidification microstructures in Co-free $Al_xCrCuFeNi_2$ high-entropy alloys. *Journal of Alloys and Compounds* 557, pp. 77-81, 2013.
7. **C. Ng**, S. Guo, J.H. Luan, S. Q. Shi and C. T. Liu. Entropy-driven phase stability and slow diffusion kinetics in an $Al_{0.5}CoCrCuFeNi$ high entropy alloy. *Intermetallics* 31, pp. 165-172, 2012.
8. 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.