

**Academic publications where NUS High School Students have been co-authors  
(student names underlined)**

By 2008 cohort

1. Zhao, Y., Zhai, W., Seah, W., Lim, K., Cheong, F. & Sow, C. Scanning mirror on a vibrating membrane for dynamic optical trapping. *Applied Physics B: Lasers and Optics* **86**, 243-243 (2007).

By 2009 cohort

1. Amrane, S., Ang, R., Tan, Z., Li, C., Lim, J., Lim, J., Lim, K. & Phan, A. A novel chair-type G-quadruplex formed by a Bombyx mori telomeric sequence. *Nucleic Acids Research* **37**, 931 (2009).
2. Shalom, S., Dash, M. & Tue, M. Graphics hardware based efficient and scalable fuzzy c-means clustering. *AusDM, ser. CRPIT, JF Roddick, J. Li, P. Christen, and PJ Kennedy, Eds.* **87**, 179-179 (2008).
3. Shalom, S., Dash, M. & Tue, M. *Data Warehousing and Knowledge Discovery* 166-166 (2008).

Others: Scarani, V., Lynn, C. & Liu, S. *Six quantum pieces: a first course in quantum physics* (World Scientific, 2010).

By 2010 cohort

1. Lim, K., Lee, G., Sheppard, C., Phang, J., Wong, C. & Chen, X. Effect of polarization on a solid immersion lens of arbitrary thickness. *Journal of the Optical Society of America A* **28**, 903-903 (2011).
2. Wang, Q., Chia, S. & Zhang, J. Symmetry as a generalization of Hermiticity. *Journal of Physics A: Mathematical and Theoretical* **43**, 295301 (2010).
3. Liu, S., Chua, L., Tan, K. & Valavan, S. Novel ferroelectric capacitor for non-volatile memory storage and biomedical tactile sensor applications. *Thin Solid Films* **518**, e152-e152 (2010).
4. Tang, X., Huang, J., Padmanabhan, A., Bakka, K., Bao, Y., Tan, B.Y., Cande, W.Z. & Balasubramanian, M.K. Marker reconstitution mutagenesis: a simple and efficient reverse genetic approach. *Yeast* **28**, 205-212 (2010).

By 2011 cohort

1. Ganesan, R., Lim, S., Saifullah, M., Hussain, H., Kwok, J., Tse, R., Bo, H. & Low, H. Direct nanoimprinting of metal oxides by in situ thermal co-polymerization of their methacrylates. *Journal of Material Chemistry* **21**, 4484-4492 (2011).
2. Guo, T., Ding, T.W., Pei, Q. & Zhang, Y. Effect of sp<sup>3</sup>-hybridized defects on the oscillatory behavior of carbon nanotube oscillators. *Physics Letters A* **375**, 2400-2404 (2011).
3. Cheng, H. Y. Folding Prismatoids Using a Form 3-D Origami. *Mathematical Medley* **35**, 3-11 (2010).
4. Cheng, H. Y. A General Method of Drawing Biplanar Crease Patterns. *Origami 5: Fifth International Meeting of Origami Science, Mathematics and Education* (CRC Press, 2010).
5. Nie, X. & Teh, Y.L. Titanate nanotubes as superior adsorbents for removal of lead(II) ions from water. *Materials Chemistry and Physics* **123**, 494-497 (2010).
6. Reddy, M.V., Cheng, H.Y., Tham, J.H., Yuan, C.Y., Goh, H.L. & Chowdari, B.V.R. Preparation of Li(Ni<sub>0.5</sub>Mn<sub>1.5</sub>)O<sub>4</sub> by polymer precursor method and its electrochemical properties. *Electrochimica Acta* **62**, 269-275 (2011),
7. Reddy, M.V., Koh, K.Y., Tang, Y.W., Goh, Y. C., Goh, H.L. & Chowdari, B.V.R. Nano-ZnCo<sub>2</sub>O<sub>4</sub> material preparation by molten salt method and its electrochemical properties for Lithium batteries. *Journal of The Electrochemical Society* **158** (12), A1-A8 (2011).

8. Gu, L., Neo, B.S. & Zhang, Y. Gold-catalyzed direct amination of arenes with azodicarboxylates. *Organic Letters* **13**, 1872–1874 (2011).

#### By 2012 cohort

1. Reddy, M.V., Silvester Raju, M. J., Sharma, N., Poh, Y.Q., Nowshad, S. H., Hsu, E.E., Peterson, V.K. & Chowdari, B.V. R. Preparation of  $\text{Li}_{1.03}\text{Mn}_{1.97}\text{O}_4$  and  $\text{Li}_{1.06}\text{Mn}_{1.94}\text{O}_4$  by the Polymer Precursor Method and X-ray, Neutron Diffraction and Electrochemical Studies. *Journal of the Electrochemical Society* **158** (11), A1231-A1236 (2011).

#### Presentations at International Scientific Conferences

1. Sankar Ananthanarayanan, Yo Eri Tiffany and Teri Danielle Yeoh You Ying, oral presentation (presenting authors), “Investigating the Effects of Water Velocity and Turbidity on the Development of *Common Spoon Seagrass*” at the 2<sup>nd</sup> World Biodiversity Congress in Kuching, Sarawak, Malaysia on 8 to 12 September 2011
2. Abigaial Lum Yan Yi and Yiong Ziyi Olivia, oral presentation (presenting authors), “An Investigation of the Macrobenthic Communities as an Assessment of Marine Life Health At Reclaimed sites of Varying Ages” at the 2<sup>nd</sup> World Biodiversity Congress in Kuching, Sarawak, Malaysia on 8 to 12 September 2011
3. Wong Kai Lin Sharmine, Lim Jia Min, Chia Cheng Yi Andrew and Dillen Ng, oral presentation (presenting authors) “Tolerance of Marine Copepods to Changing Salinity : Implications for Singapore’s Freshwater Management” at the 2<sup>nd</sup> World Biodiversity Congress in Kuching, Sarawak, Malaysia on 8 to 12 September 2011
4. Huang Tingyi, Kristacia Kang and Jang Ji Eun, poster presentation (contributing authors) on “Effects Of Stress On Anaesthetist’s Non Technical Skills (ANTS) Scores During High Fidelity Simulation-based Training” at the Asia Pacific Meeting on Simulation in Healthcare (APMSH) in Hong Kong on 19 to 22 May 2011
5. Chua Lynn and Liu Shi Yang, poster presentation (contributing authors) on “ZnO Nanowires Electrical Response to Humidity Variations Depend on Growth Conditions” at the International Conference for Advanced Materials (ICMAT) in Singapore on 27 June to 1 Jul 2011
6. Guo Taiyu and Tony Ding, poster presentation (presenting authors) on “Effect of Sp<sup>3</sup>-hybridized Defects on the Oscillatory Behavior of Carbon Nanotube Oscillators” at the International Conference for Advanced Materials in Singapore (ICMAT) on 27 June to 1 Jul 2011
7. Poh Yu Quan, Emmanuel Hsu En Chi and Shahid Hussain Nowshad, poster presentation (presenting authors) on “Preparation of  $\text{Li}_{1.06}\text{Mn}_{1.94}\text{O}_4$  and  $\text{Li}_{1.03}\text{Mn}_{1.97}\text{O}_4$  by Polymer Precursor Method and Its Electrochemical Properties” at the International Conference for Advanced Materials in Singapore (ICMAT) on 27 June to 1 Jul 2011
8. Tham Jun Han, Cheng Heng Yi and Yuan Chen Yang, poster presentation (presenting authors) on “Electrochemical Studies on High Voltage (4.8V) Cathode,  $\text{Li}[\text{Ni}_{0.5}\text{Mn}_{1.5}]\text{O}_4$ ” at the International Conference for Advanced Materials in Singapore (ICMAT) on 27 June to 1 Jul 2011
9. Teoh Xiao Ying Valerie, Nguyen Thi Bao Nguyen and Lim Yi Ying Michelle, poster presentation (Presenting Authors) on “Preparation of TiO<sub>2</sub> Nano Particles by Molten Salt Method and Its Li-cycling Studies” at the International Conference for Advanced Materials in Singapore (ICMAT) on 27 June to 1 Jul 2011

10. Koh Yee Hong Kenrick, Tang Yingwei and Goh Yeow Chong, poster presentation (Presenting Authors) on "Characterization of Nano-ZnCo<sub>2</sub>O<sub>4</sub> Material Prepared by Molten Salt Method as an Anode for Lithium Batteries" at the International Conference for Advanced Materials in Singapore (ICMAT) on 27 June to 1 Jul 2011
11. Venketasubramanian Jayashri S. and Chua Jia Min Gloria, poster presentation (presenting authors) on "Novel Piezoelectric Tactile Sensor Materials with Improved Properties" at the International Conference for Advanced Materials in Singapore (ICMAT) on 27 June to 1 Jul 2011
12. Cheng Heng Yi, oral presentation (Presenting Author) on "Folding Prismaticoids with 3D *Origami*" at the 5th International Conference on Origami in Science, Mathematics and Education (5OSME) in Singapore on 14 to 17 Jul 2010
13. Intan Krishanty Wirayadi, Soh Shi Yang Joseph and Aaron Ong Chee How, oral presentation (presenting authors?) on "Effects of Microclimatic Variations and Habitat Disturbance on Frog Communities in Singapore" at the World Biodiversity Congress 2008/09 in Chiang Mai, Thailand, Mar 2009
14. Phua Jun Yi, Nicholas Yeo Wei Xiong, Yeo Tiong Hian, poster presentation on "Thermosensitive Polyrotaxane Nano-Capsules for the Controlled Delivery of Chemotherapeutic Drugs" at the International Conference on Materials for Advanced Technologies (ICMAT) 2009, Singapore, July 2009
15. Chua Lynn and Liu Shiyang, poster presentation on "Modifying electrical properties of ZnO nanowires via humidity and temperature control" at the International Conference on Materials for Advanced Technologies (ICMAT) 2009, Singapore, July 2009
16. Natalie Ng, Lian Kay Wee and Marianne Tsang Li Ping oral presentation (presenting authors) on "Foraging Success of Solitary and Group-feeding Cattle Egrets (*Bubulcus ibis*) in Singapore" at the World Biodiversity Congress 2008/09 in Chiang Mai, Thailand, Mar 2009
17. Nicholas Chen, poster presentation (presenting author) on "Spin Mechatronics to facilitate Spin Transfer Switching In Magnetic Tunnel Junction" at the Intermag 2008 conference at Madrid, Spain 2008
18. Christabel Thng Ern Wei and Khoo Shu Hui Rebecca, poster presentation (presenting authors) on "Characterisation of Aerosol Optical Depth and Angstrom Exponent Across Singapore from Sun Photometer Measurements" at the 29th Asian Conference on Remote Sensing (ACRS2008) at Colombo, Sri Lanka, 10 to 14 November 2008
19. Vijay Ramakrishnan Thimmaiah, poster presentation (contributing author) on "PCR Based Analysis of p53 Target Genes Regulated by Small Organic Molecules in Human Liver Cancer Cells, Invitro" at the 7th International Cancer Conference 2009 at Dublin, Ireland, 13 to 15 May 2009
20. Shi Yi, oral presentation (presenting author) "Thermal-current Effect in Contact-printed Oxide Nanowire Arrays" accepted for the Third International Conference on One-dimensional Nanomaterials (ICON 2009) at Atlanta, GA, USA 7 - 9 Dec 2009
21. Vo Thanh Minh Tue, poster presentation (contributing author) on "An Approach for Fast Hierarchical Agglomerative Clustering using Graphics Processors with CUDA" at the Advances in Recent Technologies in Communication and Computing Conference 2009 (ARTCom 2009), at Kerala, India
22. Vo Thanh Minh Tue and Wilson Nithin Gautham, poster presentation (contributing author) on "*Hierarchical Agglomerative Clustering Using Graphics Processor with Compute Unified Device Architecture*" at the International Conference on Computer Design and Applications in Singapore, 15 - 17 May 2009
23. Vo Thanh Minh Tue, Poster presentation (contributing author) on "Efficient K-means clustering using Accelerated Graphics Processors" at the Data Warehousing and Knowledge Discovery 10th International Conference 2008, at Dawak, Turin, Italy, 1 to 5 September 2008.

24. Vo Thanh Minh Tue, Poster Presentation (contributing author) on "*Graphics Hardware based Efficient and Scalable Fuzzy C-Means Clustering*" at the 7th Australasian Data Mining Conference (AusDM 2008), Glenelg, South Australia,
25. Vo Thanh Minh Tue, Poster presentation (contributing author) on "GPU-based fast k-means clustering of gene expression profiles" at the Research in Computational Molecular Biology Conference 2008 (RECOMB 2008) in Singapore, 30 March to 2 April 2008