

ICMAT 2011

International Conference on Materials for Advanced Technologies

26 Jun to 1 Jul 2011

Suntec, Singapore

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Symposia List

NANOSCIENCE AND TECHNOLOGY

- A. Nanostructured Oxides, Interfaces, Heterostructures and Devices - T. Venkatesan (NUS, Singapore), C. Panagopoulos (NTU, Singapore), H. Hilgenkamp (Netherlands), S. J. Chua (NUS, Singapore), H. Hosono (TIT, Japan)
- B. Synthesis and Architecture of Nanomaterials - Hua Chun Zeng (NUS, Singapore), M.P. Srinivasan (NUS, Singapore), Jim Yang Lee (NUS, Singapore), Shu-Hong Yu (China), Christopher Roberts (USA)
- C. 4th Asian Nanoimprint Lithography Symposium (ASNIL) - Hong Yee Low (IMRE, Singapore), Shinji Matsui (Japan), M. S. M. Saifullah (IMRE, Singapore), Eung-Sug Lee (South Korea), Yoshihiko Hirai (Japan)
- D. NanoFormulation2011 - Patrick Mulqueen (UK), Matthew Giles (UK), David Higgins (UK), John Jones (UK), Reginald Tan (ICES, Singapore), Wai Kiong Ng (ICES, Singapore)

- E. Graphene: Calling all Chemists - Kian Ping Loh (NUS, Singapore), Andrew Wee (NUS, Singapore), Yu Ting (NTU, Singapore), Manish Chhowalla (UK), Jose Antonio Garrido Ariza Garrido (Germany)
- F. Toxicology of Engineered Nanomaterials - Joachim, Say Chye Loo (NTU, Singapore), Kee Woei Ng (NTU, Singapore), Greg Goss (Canada), Yi Zuo (USA)
- G. NEMS/MEMS and microTAS - Ai-Qun Liu (NTU, Singapore), Janak Singh (IME, Singapore), Richard Syms (UK), Kazuo Sato (Japan), Yi-Ping Huang (China), Xu-Ming Zhang (Hong Kong)
- H. Nanodevices and Nanofabrication - Qing Zhang (NTU, Singapore), Bill Milne (UK), Francesco Stellacci (USA), Marcus Freitag (USA)
- I. Semiconductor Nanowires and Heterostructures: Synthesis, Properties and Multifunctions - Hongjin Fan (NTU, Singapore), Qihua Xiong (NTU, Singapore), Joan Redwing (USA), Margit Zacharias (Germany)
- J. Nanoscale Patterning, Assembly, and Surface Modification - Ling Huang (NTU, Singapore), Xianmao Lu (NUS, Singapore), Bo Liu (DSI, Singapore), Chen Wang (China), Younan Xia (USA)
- K. Nanotechnology with Soft Matter - Xiaodong Chen (NTU, Singapore), Hongyu Chen (NTU, Singapore), Harald Fuchs (Germany), Bo Liedberg (Sweden), Subbu S. Venkatraman (NTU, Singapore)
- L. Memory, Nanomagnetism, Materials and Devices - S.N. Piramanayagam (DSI, Singapore), Patrick G.Q. Lo (IME, Singapore), Philip H.S. Wang (USA), Jun Ding (NUS, Singapore), Bruce Terris (USA)

ENERGY AND THE ENVIRONMENT

- M. Nanonets and Nanomaterials for Energy Harnessing & Storage - Subodh Mhaisalkar (NTU, Singapore), Chrong Haur Sow (NUS, Singapore), Madhavi Srinivasan (NTU, Singapore), Michael Graetzel (Switzerland), George Gruner (USA)
- N. Advanced Materials for Energy Storage Systems - From Fundamentals to Applications - Stefan Adams (NUS, Singapore), B.V.R. Chowdari (NUS, Singapore), Junichi Kawamura (Japan), Christian Masquelier (France), Hanxing Liu (China)
- O. Photovoltaic Materials and Devices - Armin ABERLE (NUS, Singapore), Bram HOEX (NUS, Singapore), Shuyan XU (NIE, Singapore), Stefan GLUNZ (Germany), Andreas BETT (Germany)

- P. Membrane Materials and Technologies for Emerging Applications - Neal Tai-Shung Chung (NUS, Singapore), Pramoda KP (IMRE, Singapore), Wanqin Jin (China), Kuo-Lun Tung (Taiwan), Isabel C. Escobar (USA)

FUNCTIONAL MATERIALS

- Q. Interfacial Chemistry and Engineering and Their Applications for Molecular and Organic Electronics - Guo Qin Xu (NUS, Singapore), Wei Chen (NUS, Singapore), Steven Bernasek (USA), Kai Wu (China)
- R. Organic, Flexible, and Printed Electronics - Beng Ong (IMRE, Singapore), Jie Zhang (IMRE, Singapore), Zhenan Bao (USA), Ananth Dodabalapur (USA), Jin Jang (South Korea)
- S. Metamaterials - Jinghua Teng (IMRE, Singapore), Stefan Maier (UK), Boris Lukyanchuk (DSI, Singapore), Ulf Leonhardt (UK), Vladimir Shalaev (USA)
- T. Advanced Structural and Functional Materials for Protection - Jan Ma (NTU, Singapore), S.E. Valavan (Republic Poly, Singapore), Willy Tan (Republic Poly, Singapore), T.Y. Tseng (Taiwan), Wing Kong Chiu (Australia)
- U. Composites and Nanocomposites - Chaobin He (IMRE, Singapore), Victor Shim (NUS, Singapore), Xuehong Lu (NTU, Singapore), Hiroyuki Hamada (Japan), Peijs Ton (UK)
- V. 3D TSV Process and Design Challenges - Pinjala Damaruganath (IME, Singapore), Liang Choo Hsia (Singapore), Chuan Seng Tan (NTU, Singapore)
- W. Reliability and Variability of Emerging Devices for Future Technologies and ULSI Circuits and Systems - Xing Zhou (NTU, Singapore), Cher Ming Tan (NTU, Singapore), Hei Wong (Hong Kong), Asen Asenov (UK), Ulf Schlichtmann (Germany)

BIO/SOFT MATERIALS

- X. Advanced Biomaterials for Delivery of Therapeutics - Yi-Yan Yang (IBN, Singapore), Shu Wang (NUS, Singapore), Dan Luo (USA), Kazunori Kataoka (Japan), Sangyong Jon (South Korea)
- Y. Biomaterials and Tissue Engineering - Andrew Wan (IBN, Singapore), Motoichi Kurisawa (IBN, Singapore), Ki Dong Park (South Korea)
- Z. Sustainable Biobased Polymers - P.K. Wong (ICES, Singapore), Yoshiharu Doi (Japan), Ramani Narayan (USA), Jin Chuan Wu (ICES, Singapore), Zhi Li (NUS, Singapore)

IMAGING

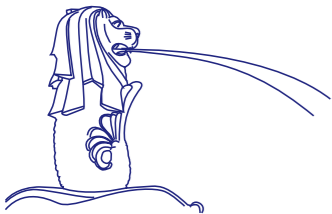
- AA. Frontiers in Optical Bio-imaging and Microscopy - Jonathan Hobley (IMRE, Singapore), David Fernig (UK), Brahim Lounis (France), Colin Sheppard (NUS, Singapore)
- BB. Nanoscale Imaging, Fabrication and Materials Modification Using Ion Beams - Andrew Bettiol (NUS, Singapore), Jeroen van Kan (NUS, Singapore), Robert G Elliman (Australia), Ioannis Raptis (Greece)
- CC. Nanophotonics and Imaging - Zexiang Shen (NTU, Singapore), Dan Pickard (NUS, Singapore), Nikolay Zheludev (UK), Din Ping Tsai (Taiwan)

CRYSTAL GROWTH AND CRYSTAL TECHNOLOGY

- DD. CGCT-5-Fundamentals of Crystallization and Low Dimensional Crystalization - Xiang-Yang Liu (NUS, Singapore), Gen Sasaki (Japan), Raj Rajagopalan (NUS, Singapore)
- EE. CGCT-5-Functional Materials Crystallization, Characterization and Devices - Dao Hua Zhang (NTU, Singapore), C. Jagadish (Australia), Hao Gong (NUS, Singapore)
- FF. CGCT-5-Organic and Bio-related Crystallization - Christian Kloc (NTU, Singapore), Ruchuan Liu (NUS, Singapore), Wenping Hu (China)
- GG. CGCT-5-Industrial Crystallization - Ann P.S. Chow (ICES, Singapore), David Hongyuan Wei (China), Zaiqun Yu (ICES, Singapore)

INTERDISCIPLINARY

- HH. Advanced Materials Supported by Synchrotron Radiation - Herbert Moser (NUS, Singapore), Ping Yang (NUS, Singapore), Martin Wegener (Germany), Antonio Castro Neto (USA)
- II. Computational Science of Transport Phenomena in Materials: Methods and Applications - Yong-Wei Zhang (IHPC, Singapore), Yuan Ping Feng (NUS, Singapore), David J Srolovitz (IHPC, Singapore), Roberto Car (USA), Jerry Tersoff (USA)
- JJ. Solution Processing Technology for Inorganic Films, Nanostructures and Functional Materials - Gregory K.L. Goh (IMRE, Singapore), Dirk Ehrentraut (Japan), Nitin Padture (USA), Dongfeng Xue (China), Patrik Schmuki (Germany)
- KK. Microwaves in Science and Engineering Applications - Manoj Gupta (NUS, Singapore), Dinesh K Agrawal (USA), Motoyasu Sato (Japan), Rajender S. Verma (USA), Peng Hu (China)



With the expected participation of > 2500 delegates and planned activities such as Plenary and Public lectures by Nobel Laureates, Plenary and Theme lectures by distinguished scientists, 37 Technical Symposia and Exhibition, participation in ICMAT2011, the 6th in the series, will be a memorable experience.

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