

9th International Conference on Materials for Advanced Technologies
18 - 23 June 2017 | Suntec Singapore

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ICMAT 2017



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18 - 23 June | Suntec Singapore

The International Conference on Materials for Advanced Technologies, or more commonly known as ICMAT, is a major biennial event organized by The Materials Research Society of Singapore (MRS-S).

The next ICMAT will be held from 18-23 June 2017 at Suntec Singapore. The fact that the biennial ICMAT will be the 9th in the series speaks volumes about the success of the series in sustaining the interest among the materials research community worldwide.

The organising committee is thus confident to bring you an exciting line-up of distinguished plenary & theme lectures, as well as in-depth technical symposia and poster presentations.

We look forward to your participation at ICMAT 2017!

Abstract Submission

Opens >> 01 Sep 2016

Closes >> 27 Jan 2017

For more information, please visit www.mrs.org.sg

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The Nobel Prize in Physics 2014
Nagoya University, Japan

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**Zhenan BAO**

Stanford University, USA

**Yury GOGOTSI**

Drexel University, USA

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The Nobel Prize in Physics 2010
The University of Manchester, UK

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The Nobel Prize in Chemistry 2016
Northwestern University, USA

**Ben Zhong TANG**

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**George WHITESIDES**

Harvard University, USA

**Qi-Kun XUE**

Tsinghua University, China



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Theme Lecture Speakers

Takuzo AIDA

The University of Tokyo,
Japan



Peter G. BRUCE

University of Oxford, UK



Paul MURALT

Ecole Polytechnique
Fédérale de Lausanne,
Switzerland



Subbu VENKATRAMAN

Nanyang Technological
University, Singapore



Nobel Laureate Public Lecture Speakers

Hiroshi AMANO

The Nobel Prize in Physics 2014
Nagoya University, Japan



J. Fraser STODDART

The Nobel Prize in Chemistry 2016
Northwestern University, USA



Kostya NOVOSELOV

The Nobel Prize in Physics 2010
The University of Manchester, UK



ELECTRONIC MATERIALS

- A. Semiconductor Integration with Silicon and Other Substrates**
Soo Jin Chua (NUS, Singapore), Eugene Fitzgerald (Singapore MIT, Singapore), Fabrice Semond (France), Yasushi Nanishi (Japan)
- B. Novel Semiconductor Materials - Physics and Devices**
Weijun Fan (NTU, Singapore), Dao Hua Zhang (NTU, Singapore), C. Jagadish (Australia), Ming-Fu Li (China),
- C. Functionalized π -Electron Materials and Devices**
Qichun Zhang (NTU, Singapore), Chunyan Chi (NUS, Singapore), Zhenan Bao (USA), Shu Wang (China), Hiroko Yamada (Japan)

ENERGY & ENERGY STORAGE

- D. Advanced Batteries for Sustainable Technologies**
Stefan Adams (NUS, Singapore), Qing Wang (NUS, Singapore), Haoshen Zhou (Japan), V. Thangadurai (Canada)
- E. Nanomaterials for Advanced Energy and Environmental Applications**
Hongjin Fan (NTU, Singapore), Ghim Wei Ho (NUS, Singapore), Shizhang Qiao (Australia), Wenjie Mai (China)
- F. Advanced Inorganic Materials and Thin Film Technology for Solar Energy Harvesting**
Goutam Kumar Dalapati (IMRE, Singapore), Jean-François Pierson (France), Goutam De (India), Lydia Helena Wong (NTU, Singapore), Shyam Sudhir PANDEY (Japan)
- G. Solar PV (Photovoltaics) Materials, Manufacturing and Reliability**
Avinash Baji (SUTD, Singapore), Andrew Tay (NUS, Singapore), Dauskardt Stanford (USA), David DeGraff (USA), Armin Aberle (NUS, Singapore)
- DD. Advanced Materials for Thermoelectrics**
Kedar HIPPALGAONKAR (IMRE, Singapore), Jian Wei XU (IMRE, Singapore), Shuo-Wang YANG (IMRE, Singapore), Jeffrey Urban (USA), Wenqing Zhang (China)

FUNCTIONAL MATERIALS

- H. 2D Materials and Devices Beyond Graphene**
Dongzhi Chi (IMRE, Singapore), Andrew Wee (NUS, Singapore), Kah Wee Ang (NUS, Singapore), Junqiao Wu (USA), Jamie Warner (UK)
- I. Extreme Mechanics – Mechanical Behaviors of Nanoscale and Emerging Materials**
Arief Budiman (SUTD, Singapore), Shailendra P Joshi (NUS, Singapore), Mark Jhon (IHPC, Singapore), Julia R. Greer (USA), Javier Llorca (Spain)
- J. Transparent Electrode Materials and Devices**
Pooi See Lee (NTU, Singapore), Tupei Chen (NTU, Singapore), Jung Yong Lee (South Korea), Shlomo Magdassi (Israel), Daniel Chua (NUS, Singapore)
- K. Computational Modeling and Simulation of Advanced Material Systems**
Hua Li (NTU, Singapore), Fangsen Cui (IHPC, Singapore), Zishun Liu (China), Nimal Rajapakse (Canada), Srikanth Vedantam (India)
- L. Novel Solution Processes for Advanced Functional Materials**
K. Byrappa (India), Mei Chee Tan (SUTD, Singapore), Ajyan Vinnu (Australia), Sanjay Mathur (Germany)
- M. Additive Manufacturing for Fabrication of Advanced Materials/Devices**
Jun Ding (NUS, Singapore), Jerry Fuh (NUS, Singapore), Chee Kai Chua (NTU, Singapore), Nicholas X. Fang (USA), Wei Jun (SIMTech, Singapore)
- N. Advanced Ceramics and Nanohybrids for Energy, Environment and Health**
John Wang (NUS, Singapore), Xu Li (IMRE, Singapore), Federico Rosei (Canada), Dairong Chen (China), Jerome Claveria (Canada)

O. Smart Materials and Material-Critical Sensors & Transducers

Kui Yao (IMRE, Singapore), Susan Trolier-Mckinstry (USA), Vincent C. Lee (NUS, Singapore), Yun Bao Jiang (China), Liang Song (China)

P. Progress and Challenges in Molecular Electronics

Christian A. Nijhuis (NUS, Singapore), Damien Thompson (Ireland), Herre van der Zant (The Netherlands), Daniel Frisbie (USA), Cedric Troadec (IMRE, Singapore)

Q. Materials Engineering for Electromagnetic Absorption and Shielding

Santiranjana Shannigrahi (IMRE, Singapore), Ratnamala Chatterjee (India), Ling Bing Kong (NTU, Singapore), K. N. Rozanov (Russia), Mohit Sharma (IMRE, Singapore)

R. Wearable and Stretchable Electronics

Jianyong Ouyang (NUS, Singapore), Chwee Teck Lim (NUS, Singapore), Yongwei Zhang (IHPC, Singapore), Tsuyoshi Sekitani (Japan), Zhixiang Wei (China)

S. Spintronics and Magnetic Materials

Yuan Ping Feng (NUS, Singapore), Vijay Kumar (India), Wen Siang Lew (NTU, Singapore), Ching-Ray Chang (Taiwan), Stefan Blugel (Germany)

T. The Third International Symposium on Aggregation Induced Emission: Materials, Mechanisms and Applications

Bin Liu (NUS, Singapore), Ben Zhong Tang (Hong Kong), Deqing ZHANG (China), Yoshiki CHUJO (Japan), Andrea PUCCI (Italy)

CC. Organic-Inorganic Hybrids and Polymer Nanocomposites

Xiao 'Matthew' Hu (NTU, Singapore)

OPTICAL / PHOTONICS

U. Halide Perovskites for Optoelectronics Applications

Subodh G. Mhaisalkar (NTU, Singapore), Henk Bolink (Spain), Tze Chien Sum (NTU, Singapore), Anders Hagfeldt (Switzerland), Constance J. Chang-Hasnain (USA)

V. Micro-Nano-Optics and Photonics

Jinghua Teng (IMRE, Singapore), Cheng-Wei Qiu (NUS, Singapore), Xiang Zhang (USA), Qihuang Gong (China), Stefan Maier (UK)

W. Optically Resonant Nanostructures

Boris Luk'yanchuk (DSI, Singapore), Arseniy Kuznetsov (DSI, Singapore), Yuri Kivshar (Australia), Mark Brongersma (USA), Nader Engheta (USA)

X. Wide Bandgap Electronics and Photonics

S. Tripathy (IMRE, Singapore), Arnab Bhattacharya (India), Juergen Christen (Germany), Devki N. Talwar (USA), Eng Fong Chor (NUS, Singapore)

Y. Structured Optical Materials and Devices

Suresh Valiyaveetil (NUS, Singapore), Andrew A. Bettiol (NUS, Singapore), Joby Joseph (India), Adarsh Sandhu (Japan)

Z. Multiphysical Optical Devices, Systems and Materials

Eng Huat Khoo (IHPC, Singapore), Adrian Soo Jin Koh (NUS, Singapore), Ai Qun Liu (NTU, Singapore), Din Ping Tsai (Taiwan)

POLYMERS / BIOMATERIALS

AA. Nanomaterials for Translational Medicine

Edward Kai-Hua Chow (NUS, Singapore), Chenjie Xu (NTU, Singapore), Dean Ho (USA), Jianghong Rao (USA), Shutao Wang (China)

BB. Stimuli Sensitive and Responsive Polymer Biomaterials

Terry Steele (NTU, Singapore), Harm-Anton Klok (EPFL, Switzerland), Kandalam V Ramanujachary (USA), Koon Gee Neoh (NUS, Singapore)