

## Professor Shuit Tong Lee

Dean, Macao Institute of Materials Science and Engineering

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### Academic Qualification:

- Ph.D. in Physical Chemistry, University of British Columbia, 1974
- M.Sc. in Chemistry, University of Rochester, 1971
- B.Sc. in Chemistry (minor in Physics), The Chinese University of Hong Kong, 1969

### Teaching Area

Materials science

### Research Area

- Functional nanomaterials and devices
- Organic light-emitting diode (OLED) display technology
- Diamond and super-hard thin film technology

### Working Experience

- Professor and Founding Dean, Macao Institute of Materials Science and Engineering, Macau University of Science and Technology, Macau, China, 2021.01 – present
- Soochow University, Suzhou, China, 2008.6 – present
  - Professor and Founding Dean, College of Nano Science & Technology (CNST), 2010.12 – present
  - Professor and Founding Director, Institute of Functional Nano & Soft Materials (FUNSOM), 2008.06 – present
- City University of Hong Kong, Hong Kong, China, 1994.10 – 2012.06
  - Founding Director, Centre of Super-Diamond and Advanced Films (COSDAF), 1998 – 2012
  - Senior Lecturer (1994 – 1995) / Associate Professor (1995 – 1996) / Chair Professor of Materials Science (1996 – 2012), Department of Physics & Materials Science
- Scientist/Senior Scientist/Group Leader, Eastman Kodak Company, Rochester, New York, USA, 1976.11

- Postdoctoral Fellow, University of California, Berkeley, California, USA, 1974.11 – 1976.10

#### Academic Publication (selected)

- W.L. Ma, P. Alonso-González\*, S.J. Li, A.Y. Nikitin, J. Yuan, J. Martín-Sánchez, J. Taboada-Gutiérrez, I. Amenabar, P.N. Li, S. Vélez, C. Tollan, Z.G. Dai, Y.P. Zhang, S. Sriram, K. Kalantar-Zadeh, **S.-T. Lee**, R. Hillenbrand\*, Q.L. Bao\*, In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal, *Nature* 562, 557 (2018).
- J. Liu, Y. Liu, N.Y. Liu, Y.Z. Han, X. Zhang, H. Huang, Y. Lifshitz\*, **S.-T. Lee\***, J. Zhong, Z.H. Kang\*, Metal-free efficient photocatalyst for stable visible water splitting via a two-electron pathway, *Science* 347, 970-974 (2015).
- D.D.D. Ma, C.S. Lee, F.C.K. Au, S.Y. Tong, **S.-T. Lee\***, Small-diameter silicon nanowire surfaces, *Science* 299, 1874-1877 (2003).
- **S.-T. Lee\***, Y. Lifshitz, The road to diamond wafers, *Nature* 424, 500 (2003).
- Y. Lifshitz\*, Th. Kohler, Th. Frauenheim, I. Guzmann, A. Hoffman, R.Q. Zhang, X.T. Zhou, **S.-T. Lee**, The mechanism of diamond nucleation from energetic species, *Science* 297, 1531 (2002).
- **S.-T. Lee\***, H.Y. Peng, X.T. Zhou, N. Wang, C.S. Lee, I. Bello, Y. Lifshitz, A Nucleation site and mechanism leading to epitaxial growth of diamond films, *Science* 287, 104-106 (2000).

#### Professional Society Membership

- Member (Academician), Chinese Academy of Sciences
- Fellow, TWAS, the Academy of Sciences for the Developing World