

Professor Wang Sui-Dong

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Academic Qualification:

- Ph.D. in Physics and Materials Science, City University of Hong Kong, 2004
- B.Sc. in Physics, Zhejiang University, 2000

Teaching Area

- Semiconductor Device Physics

Research Area

Device development and device physics in organic/hybrid electronics, such as organic/hybrid neuromorphic devices toward artificial intelligence; organic/hybrid memristors, memcapacitors and memtransistors.

Working Experience

- Professor, MIMSE, Macau University of Science and Technology, Macau, China, 2021 - present
- Professor, FUNSOM, Soochow University, China, 2008 - Present
- Research Scientist, National Institute of Advanced Industrial Science and Technology (AIST), Japan, 2008
- Research Scientist, National Institute of Physical and Chemical Research (RIKEN), Japan, 2007
- Postdoctoral Fellow, Nagoya University, Japan, 2004 - 2007

Academic Publication (selected)

- M. T. Tan, T. Wang, X. Gao, Y. N. Zhong, J. Y. Zhang, J. L. Xu, C. Li, **S. D. Wang** -white based polymer memristors with competing electronic-ionic effect and timescale dependent *IEEE Electron Device Letters* 42: 228-231 (2021).

- Y. N. Zhong, X. Gao, J. L. Xu, H. Sirringhaus, **S. D. Wang** -gating organic
Advanced Electronic Materials 6:
1900955 (2020).
- T. Chen, X. Gao, J. Y. Zhang, J. L. Xu, **S. D. Wang**
Advanced Optical Materials 8:
1901289 (2020).
- J. Y. Zhang, J. L. Xu, T. Chen, X. Gao, **S. D. Wang** -
ACS Applied Materials & Interfaces 11: 44430-44437 (2019).
- L. X. Zhang, X. Gao, J. J. Lv, Y. N. Zhong, C. Xu, J. L. Xu, **S. D. Wang** -free selective light
monitoring by organic field-effect transistor memories with a tunable blend charge-
ACS Applied Materials & Interfaces 11: 40366-40371 (2019).
- J. J. Lv, X. Gao, L. X. Zhang, Y. Feng, J. L. Xu, J. Xiao, B. Dong, **S. D. Wang** -blind UV
monitoring with a photochromic charge trapping layer in organic field-
Applied Physics Letters 115: 113302 (2019).
- Y. Feng, X. Gao, Y. N. Zhong, J. L. Wu, J. L. Xu, **S. D. Wang** -processed polymer thin-
film memristors with an electrochromic feature and frequency-
Advanced Intelligent Systems 1: 1900022 (2019).
- J. L. Xu, Y. H. Liu, X. Gao, S. Shen, **S. D. Wang** all-
solid- , *Energy Storage Materials* 22: 402-409 (2019).
- J. W. Cai, L. X. Li, C. Xu, Y. Feng, Y. N. Zhong, J. L. Xu, X. Gao, **S. D. Wang**
Applied Physics Letters 114: 043302 (2019).
- Y. N. Zhong, T. Wang, X. Gao, J. L. Xu, **S. D. Wang** -
Advanced Functional Materials 28: 1800854 (2018).

Professional Society Membership

- IEEE Member