Séminaire
« Ambassadeur CNRS Chimie »

Mardi 10 juin 2025 à 10h30
Amphithéâtre Henri Benoît

Ru-Shi Liu

Department of Chemistry, National Taiwan University, Taipei 106, Taiwan

Light Conversion Materials Leading Future

Prepare to be illuminated by cutting-edge research that's lighting up the future! This groundbreaking study explores the fascinating world of light transformation, unlocking its potential in ways you never imagined. This research covers everything from revolutionary solid-state lighting that could change how we illuminate our world to game-changing energy solutions that might power our tomorrow and even to life-saving medical breakthroughs.

Discover how:

• Phosphors and quantum dots are revolutionizing LED technology[1,2]

• Light could be the key to solving our energy crisis through water splitting and next-generation batteries[3,4]

• Nanomaterials are opening new frontiers in cancer therapy[5]

Join us on this enlightening journey as we shed light on the possibilities that await us!

1. V. Rajendran, K. C. Chen, W. T. Huang, M. Kamiński, M. Grzegorczyk, S. Mahlik, G. Leniec, K. M. Lu, D. H. Wei, H. Chang & R. S. Liu, ACS Energy Lett. 8, 2023, 2395–2400.
2. V. Rajendran, M. H. Fang, W. T. Huang, N. Majewska, T. Lesniewski, S. Mahlik, G. Leniec, S. M. Kaczmarek, W. K. Pang, V. K. Peterson, K. M. Lu, H. Chang & R. S. Liu, J. Am. Chem. Soc. 143, 2021, 19058–19066.
3. K. Iputera, J. Y. Huang, S. C. Haw, J. M. Chen, S. F. Hu & R. S. Liu, J. Mater. Chem. A. 10, 2022, 3460–3468.
4. Z. Tong, S. B. Wang, M. H. Fang, Y. T. Lin, K. T. Tsai, S. Y. Tsai, L. C. Yin, S. F. Hu & R. S. Liu, Nano Energy, 85, 2021, 105972.
5. W. T. Huang, T. Y. Su, M. H. Chan, J. Y. Tsai, Y. Y. Do, P. L. Huang, M. Hsiao & R. S. Liu, Angew. Chem. Int. Ed., 60, 2021, 6955–6959.

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Les personnes souhaitant rencontrer Ru-Shi Liu sont priées de prendre contact avec Delphine Chan-Seng.

6.

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Biography

Professor Ru-Shi Liu received his Bachelor's degree in Chemistry from Soochow University (Taiwan) in 1981. He got his Master's Degree in nuclear science from the National Tsing Hua University (Taiwan) in 1983. He obtained two Ph.D. degrees in Chemistry from National Tsing Hua University in 1990 and the University of Cambridge in 1992. He joined Materials Research Laboratories at the Industrial Technology Research Institute as an Associate Researcher, Research Scientist, Senior Research Scientist, and Research Manager from 1983 to 1995. Then, he became an Associate Professor at the Department of Chemistry of the National Taiwan University from 1995 to 1999. Then, he was promoted to Professor in 1999. In July 2016, he became the Distinguished Professor.

He got the Excellent Young Person Prize in 1989, the Excellent Inventor Award (Argentine Medal) in 1995, and the Excellent Young Chemist Award in 1998. He got the 9th Y. Z. Hsu Scientific Paper Award due to his excellent energy-saving research in 2011. He received the Ministry of Science and Technology awards for distinguished research in 2013 and 2018. In 2015, he received the distinguished award for Novel and Synthesis by IUPAC and NMS. In 2017, he received the Chung-Shang Academic Paper Award. He got “Highly Cited Researchers” by Clarivate Analytics in 2018, 2019, 2020, 2021, and 2023. He got the Hou Chin-Tui Award in 2018 due to his excellent research on basic science. He received the 17th Y. Z. Hsu Chair Professor Award for contributing to excellent research on “Green Science & Technology” in 2019. He then got the 26th TECO award for his contribution to combining materials chemistry's academic and practical application in 2019. He received the Academic Award of the Ministry of Education and the Academic Achievement Award from the Chemical Society Located in Taipei in 2020. He obtained the FutureTech Award from the Ministry of Science and Technology in 2021 and 2024. He won the Journal of the Chinese Chemical Society Best Paper Award 2021. He obtained the NSRRC Outstanding Paper Award in 2024. His research is concerned with Materials Chemistry. He is the author and co-author of more than 650 publications in international scientific journals with total citations >34,639, h-index: 94. He has also been granted more than 200 patents.

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