

November 2020

IMPact@SUTD is a regular update featuring works by SUTD Faculty, Researchers, Students and Research Centres/Labs. We hope to create awareness of the Research by SUTD within the SUTD community and beyond. Share with us your SUTD works today so that we can include it in our next update.



CONGRATULATIONS!

Professor Lim Sun Sun on being named to the inaugural Singapore 100 Women in Tech (SG100WIT) List *.

Professor Lim Sun Sun
Head, Humanities, Arts and Social Sciences

** The inaugural Singapore 100 Women in Tech (SG100WIT) List recognises the contributions of women in the tech sector. Nominees are celebrated for their ability to influence, inspire and impact on community and industry.*





CONGRATULATIONS!

For their paper *“Imaging nodal knots in momentum space through topoelectrical circuits”* being featured as an **“Editor Focus”** article in **Nature Communications**.

**In this paper, the SUTD team came up with a machine-learning-enhanced design of electrical circuit, which provide a concrete proof on the physics theory developed by NUS team.*





Professor Ang Lay Kee, Ricky
(Head, Science, Mathematics And Technology, And Ng Teng Fong Chair Professor For SUTD-ZJU IDEA)

Assistant Professor Ang Yee Sin
(Science, Math and Technology)

Amanda Sutrisno
(Alumni, Engineering Product Development)


CONGRATULATIONS!



Dr Nazry Bahrawi
for being awarded the **Advance Higher Education - Fellowship***

**The Advance Higher Education Fellowship recognizes personal and institutional commitment to excellence in learning and teaching in global higher education and offers professional recognition in the categories of Associate Fellow, Fellow, Senior Fellow and Principal Fellow. Fellowship recognizes effective, substantive and high-quality teaching that support student learning and demonstrates a broad understanding of effective teaching and learning approaches which contribute to significant student learning and excellence in teaching.*

Dr Nazry Bahrawi
Senior Lecturer
Humanities, Arts and Social Sciences




Leveraging Digital Technology to overcome barriers in the Prosthetic and Orthotic Industry: an evaluation of its applicability and use during the COVID-19 pandemic
JMIR Rehabilitation and Assistive Technologies

SUTD Author: Trevor Binedell, Karupppasamy Subburaj and Lucienne T M Blessing

“3D scanning & imaging lead the way, primarily for footwear, AFOs, and prosthetic sockets to offer better outcomes. Singaporeans are less sure that ‘future is digital’. Virtual-Care is useful, but only to a certain extent. Digital technologies change the future of healthcare and must be implemented thoughtfully due to adoption barriers.”

--- Karupppasamy Subburaj




Helicoidally Arranged Polyacrylonitrile Fiber-Reinforced Strong and Impact-Resistant Thin Polyvinyl Alcohol Film Enabled by Electrospinning-Based Additive Manufacturing
Process-Structure-Properties in Polymer Additive Manufacturing

SUTD Author: Rahul Sahay, Komal Agarwal, Anbazhagan Subramani, and Nagarajan Raghavan

“Fabrication of tough and impact-resistant 3D electrospun helicoidally aligned sub-micron sized fiber-reinforced thin-film polymer composites.”

--- Komal Agarwal

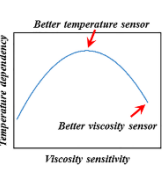


Virulent Zones
Duke University Press

SUTD Author: Lyle Fearnley

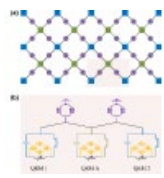
“Virulent Zones is an ethnography of the global plans to stop an influenza pandemic at its hypothetical source in rural China. Observing virologists and veterinarians as they track lethal viruses in the field, the book documents how science outside of the laboratory is displaced by unexpected encounters with the farming cultures of the pandemic epicenter.”

--- Lyle Fearnley



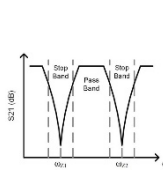
A Systematic Study on the Relationship Between Viscosity Sensitivity and Temperature Dependency of BODIPY Rotors
Bulletin of the Korean Chemical Society

SUTD Author: Weijie Chi and Xiaogang Liu



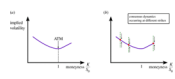
Dephasing-Protected Scalable Holonomic Quantum Computation on a Rabi Lattice
Physical Review Applied

SUTD Author: Chunfeng Wu



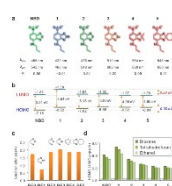
Design of a Ka-Band U-Shaped Bandpass Filter with 20-GHz Bandwidth in 0.13- μ m BiCMOS Technology
Electronics

SUTD Author: Kai Men, Hang Liu and Kiat Seng Yeo



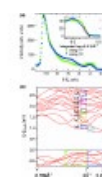
Learning agents in Black-Scholes financial markets
Royal Society Open Science

SUTD Author: Tushar Vaidya and Georgios Piliouras



Molecular Origins of Heteroatom Engineering on the Emission Wavelength Tuning, Quantum Yield Variations and Fluorogenicity of NBD-like SCOTfluors
Chemistry-an Asian Journal

SUTD Author: Ying Gao, Chao Wang, Weijie Chi and Xiaogang Liu



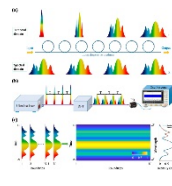
Photoexcited charge carrier dynamics in Sb₂Se₃(100)
Physical Review Materials

SUTD Author: Jianzhou Zhao



Prosumer site power interruption attacks: exploiting the reactive power control feature in smart inverters
IET Generation Transmission & Distribution

SUTD Author: Nandha Kumar Kandasamy



Recent advances in real-time spectrum measurement of soliton dynamics by dispersive Fourier transformation
Reports on Progress in Physics

SUTD Author: Yunzheng Wang



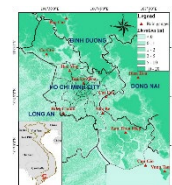
Safeguarding unmanned aerial systems: an approach for identifying malicious aerial nodes
IET Communications

SUTD Author: Vishal Sharma



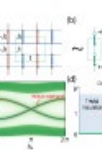
Shortwave Infrared-Emitting Theranostics for Breast Cancer Therapy Response Monitoring
Frontiers in Molecular Biosciences

SUTD Author: Xinyu Zhao and Mei Chee Tan



Spatiotemporal Trend Analysis of Precipitation Extremes in Ho Chi Minh City, Vietnam During 1980-2017
International Journal of Disaster Risk Science

SUTD Author: Thanh Duc Dang



Z(2)-projective translational symmetry protected topological phases
Physical Review B

SUTD Author: Yue-Xin Huang and Shengyuan A. Yang

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