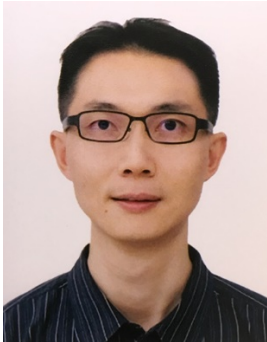


Curriculum Vitae



Dr Clement Yuen

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Education Qualifications

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|------|---|
| 2007 | PhD, Electrical and Electronic Engineering, Nanyang Technological University |
| 2002 | BEng, Electrical and Electronic Engineering, Nanyang Technological University |

Academic and Professional Experience

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| 2023 - Present | Senior Lecturer, School of Science and Technology, Singapore University of Social Sciences |
| 2023 | Founder, Clement Photonics Research & Development, Singapore (UEN: 53463088W) |
| 2019 - 2020 | Mistletoe Research Fellow, Momental foundation, California |
| 2018 - 2021 | Part-time Lecturer, Nanyang Technological University, Singapore |
| 2018 - 2021 | Research Fellow, Nanyang Technological University, Singapore |
| 2014 - 2018 | Founder, Clement Photonics Research & Development, Singapore (UEN: 53273559E) |
| 2010 - 2014 | Research Fellow, Nanyang Technological University, Singapore |
| 2007 - 2009 | Research Fellow, National University of Singapore, Singapore |
| 2007 | Research Engineer, National University of Singapore, Singapore |
| 2006 | Project Officer, Nanyang Technological University, Singapore |

Memberships and Professional Activities

- | | |
|----------------|---|
| 2021 - 2023 | Guest editor (2021), editorial board member, and section board member of MDPI Photonics; guest editor (2022 - 2023), and section board member of MDPI Sensors |
| 2020 - 2021 | LinkedIn Coach (China), Volunteer workforce timeshare scheme |
| 2019 - Present | Reviewer for 32 MDPI journals, and other high-impact journals, e.g., Adv. Mater., Anal. Chem., and Sci. Reports. |

Research Interests

- Biophotonics
- Biomedical optical spectroscopy and imaging
- Non-invasive medical diagnostics
- Biomedical instrumentation

Selected Publications

Patent:

US Patent No. 9671347, June 6, 2017, "Method of diagnosing malaria infection in a patient by surface enhanced resonance Raman spectroscopy", Quan Liu, and Clement Yuen.

Book Chapter:

Keren Chen, Yi Hong Ong, Clement Yuen, Quan Liu, "Surface-Enhanced Raman Spectroscopy for Intradermal Measurements", in *Imaging in Dermatology*, edited by Michael R Hamblin and Pinar Avci, Elsevier (2016) (ISBN: 978-0-12-802838-4), 141-154.

Journal Papers:

Clement Yuen, Xiaohong Gao, James Jia Ming Yong, Prem Prakash, Chalapathy Raja Shobana, Perera Adhikarige Taniya Kaushalya, Yuemei Luo, Yanru Bai, Charles Yang Chun, Peter R Preiser, and Quan Liu, "Towards malaria field diagnosis based on surface-enhanced Raman scattering with on-chip sample preparation and near-analyte nanoparticle synthesis", *Sensors and Actuators B*, 343, 130162 (2021). This work received interviews by Channel News Asia, and a series of other media.

Clement Yuen, and Quan Liu, "Towards in vivo intradermal surface enhanced Raman scattering (SERS) measurements: silver coated microneedle based SERS probe", *J. Biophotonics* 7, 683 (2014). This work was selected as the editor's choice article, and featured in *Advanced Science News*.

Clement Yuen, Wei Zheng, and Zhiwei Huang, "Low-level detection of anti-cancer drug in blood plasma using microwave-treated gold-polystyrene beads surface-enhanced Raman scattering substrates", *Biosens. Bioelectron.* 26, 580 (2010).

Conference Papers:

Clement Yuen, and Quan Liu, "Surface-enhanced Raman scattering (SERS) for detection of hemozoin in malaria diagnosis" 8th International Conference on Bio Signals, Images and Instrumentation, Mar 16 – 18, 2022, Chennai, India (Invited Keynote Speaker).

Quan Liu, Clement Yuen, Keren Chen, Jian Ju, Aoli Xiong, and Peter Preiser, "Surface enhanced Raman spectroscopy for malaria diagnosis and intradermal measurements" *Plasmonics in Biology and Medicine XV* 10509, Photonics West, 27Jan-01Feb, 2018, San Francisco, California, U.S.A (Invited presentation).

Clement Yuen, W. Zheng, and Z. Huang, "A specially modified surface-enhanced Raman spectroscopy (SERS) substrate for biomedical applications", Conference on Plasmonics in Biology and Medicine V, Jan. 21 - 22, 2008, San Jose, California, U.S.A. (Sponsored by Lee Foundation, Singapore).

Awards and fellowships

2023	First Prize Yongkang Hardware Entrepreneurship Digital Intelligence Entrepreneurship & Innovation Competition (China, Yongkang)
2019-2020	Mistletoe research fellowship (California, Momental foundation)
2012-2014	Lee Kuan Yew post-doctoral fellowship (Singapore, Lee Kuan Yew Endowment Fund)
2003-2005	A*STAR graduate fellowship (Singapore, A*STAR)

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