CHRISTIAN HARITO

Komplek Taman Aries Blok B-2 Kav no 61, Kembangan, Meruya Utara, Jakarta, 11620
Email: christian.harito@binus.ac.id
Phone: +6287879805782

I am a lecturer of Master of Industrial Engineering Department and Subject Content Coordinator at Bina Nusantara University.

Work experience

Subject Content Coordinator, Bina Nusantara University (January 2023 – current)
Acts as a Subject Content Specialists for Master of Industrial Engineering Department ensuring that the delivery of the program is aligned with BINUS University academic quality standard and DIKTI's standard while performing Catur Dharma: teaching, research, community service and personal development.

Managing Editor ComTech, Bina Nusantara University (July 2020 – current)
Managing ComTech: Computer, Mathematics and Engineering Applications (SINTA 2)

National Journal Accreditation Assessor (2021 – 2024)
Evaluating several national journals per year for national accreditation.

Academic Publishing Section Head, Bina Nusantara University (July 2020 – December 2022)
Managing 14 journals under Bina Nusantara University.
Achievement: Leading the accreditation process of Journal of ASEAN Studies (from SINTA 2 to SINTA 1 and Scopus & ScimagoJR Q1), CommIT (from SINTA 2 to SINTA 1 and Scopus), and the Winners (from SINTA 3 to SINTA 2).

Lecturer, Bina Nusantara University (July 2020 – current)
Delivering lecture, research, and community development under Industrial Engineering Department

Postdoctoral programme, Institut Teknologi Bandung (March – September 2018)
Project: Alternative CdS buffer layer in CZTS thin film solar cell

- Establishing thin film solar cell research in Engineering Physics ITB.
- Synthesis of CZTS thin film and device fabrication.
- Supervising of one master student and two undergraduate students.
- Conducting literature review and drafting papers.

MSc supervision, University of Southampton (March – June 2017)
Project: Fabrication of gecko-like hairy structures of PMDS using a TiO_2 nanotube template

- Supervision of literature review and experimental studies.
- Training to operate scanning electron microscopy (SEM).

Teaching assistant, University of Southampton (October 2016 – December 2017)
Demonstrator for SESG3024-Manufacturing and Materials (May 2017 – December 2017)

- Tutoring student in using CES EduPack (now Ansys Granta EduPack) for material selector.
- Troubleshooting 3D printing problems and prototype design using Solidworks and UP! 3D printer.

Demonstrator for FEEG 1002-Properties of Materials (October 2016 – April 2017)

- Problem solving tutor for crystallography.
- Lab demonstrator for materials testing of metals and polymers (tensile and impact tests).
- Problem solving tutor for the metallography of phase transformations in metallic alloys.

Education

University of Southampton (November 2013 – December 2017)
Ph.D. in Engineering Science
Thesis: UV radiation resistant polyimide based composites reinforced with nanostructured titanate particles: preparation and properties. Supervisors: Dr. Dmitry Bavykin and Prof. Frank Walsh.

Institut Teknologi Bandung (August 2008 – October 2012)
B.Sc. in Materials Engineering
Thesis: Effect of amide functionalisation and precuring on tensile properties of MWCNT/epoxy nanocomposites. Supervisor: Dr. Hermawan Judawisastra

Research Grant

2024-2024 INTEGRASI QFD, TRIZ, DAN AHP UNTUK PENGEMBANGAN PRODUK ORTOSIS PERGELANGAN KAKI, Penelitian Terapan Kemendikburistek Dikti
2023-2023 Pengembangan Produk Inovasi Prostetik Sebagian Jari Menyesuaikan Warna Kulit Pasien dengan Metode 3D Printing, Kedaireka
2022-2023 Pembuatan direct ink writing 3D printer dengan disposable feeder untuk microfluidic device, Binus University
2022-2023 Smart desk lamp, Kemendikburistek Dikti
2021-2022 Energy Storage System-level Optimization and Grid Integration using Machine Learning and Artificial Intelligence, Binus University
2020-2021 Optimasi low-cost raman spectroscopy 532nm untuk kontrol kualitas grafena, Binus University
2019-2020 Pembuatan 3D printing protipe chamber desalinasi berbasis dioda ionik dengan membran nanomaterial, Binus University
2018-2019 All-Solution-Non-Vacuum Fabrication Process of CZTS Solar Cell using ZTO as Non-Toxic Buffer Layer, Institut Teknologi Bandung (ITB) Postdoctoral Scheme

Awards

2021 Top 40 researchers award, Binus University.
2013-2017 LPDP Doctoral Scholarship, LPDP.

Selected publications (Sinta ID: 6728253, 47 Scopus, h-index: 12, citation 554)

Polymer nanocomposites having a high filler content: synthesis, structures, properties, and applications
Christian Harito, Dmitry V Bavykin, Brian Yuliarto, Hermawan K Dipojono, Frank C Walsh. Vol 11. 2019. Nanoscale. DOI: 10.1039/C9NR00117D

Decolourisation of reactive black-5 at an RVC substrate decorated with PbO2/TiO2 nanosheets prepared by anodic electrodeposition
SZJ Zaidi, C Harito, FC Walsh, CP de León. Vol. 22. 2018. Journal of Solid State Electrochemistry. DOI: https://doi.org/10.5258/SOTON/D0530

Titanate nanotubes and nanosheets as a mechanical reinforcement of water-soluble polyamic acid: Experimental and theoretical studies
Christian Harito, Dmitry V. Bavykin, Mark E. Light, Frank C. Walsh. Vol. 124. 2017. Composites Part B: Engineering. DOI: 10.1016/j.compositesb.2017.05.051

Insertion of nanostructured titanates into the pores of an anodised TiO_2 nanotube array by mechanically stimulated electrophoretic deposition
Alysson S. Martins, Christian Harito, Dmitry V. Bavykin, Frank C. Walsh, and Marcos R. V. Lanza. Vol. 5. 2017. Journal of Materials Chemistry C. DOI: 10.1039/C7TC00575J

Electrospinning of *in situ* and *ex situ* synthesized polyimide composites reinforced by titanate nanotubes
Christian Harito, Ruben Porras, Dmitry V. Bavykin, Frank C. Walsh. Vol. 134. 2016. Journal of Applied Polymer Science. DOI: 10.1002/app.44641