



Name : Frida Agung Rakhmadi, S.Si., M.Sc.  
 Position : Assistant Professor  
 Department : Physics  
 Email : [frida.rakhmadi@uin-suka.ac.id](mailto:frida.rakhmadi@uin-suka.ac.id)  
 Teaching and Research Area : Instrumentation and Measurement

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Master/MSc degree	Physics	Universitas Gadjah Mada	2011
Undergraduate degree	Physics	Universitas Negeri Yogyakarta	2004

**Employment:**

Position	Employer	Period
Lecturer	Physics Department	2005-now
Head of Department	Physics Department	2013-2016
Head of Laboratory	Physics Laboratory	2016-2020
Member	Halal Center of UIN Sunan Kalijaga Yogyakarta	2019-now

**Primary Publications:**

No	Title	Journal	Volume	Issue	Year
1	A comparative study of carbon nanofiber (CNF) and activated carbon based on coconut shell for ammonia (NH <sub>3</sub> ) adsorption performance	Applied Physics A	128	3	2022
2	Smart farming: Sistem tanaman hidroponik terintegrasi IoT MQTT panel berbasis android	Jurnal Keteknikaan Pertanian Tropis Dan Biosistem	9	1	2021
3	Development of IoT-Based Volcano Early Warning System	Journal of Physics: Conference Series	1772	1	2021
4	A Design of the Second Generation of UIN Sunan Kalijaga's UV Fluorescence Spectro-Imaging System	International Conference on Science and Engineering (ICSE-UIN-SUKA 2021)			2021



# UIN SUNAN KALIJAGA YOGYAKARTA

## FACULTY OF SCIENCE AND TECHNOLOGY

Jl. Marsda Adisucipto Yogyakarta 55281, Telp:+62274519739, Fax:+62274540971,

E-mail: [fst@uin-suka.ac.id](mailto:fst@uin-suka.ac.id), website: <http://saintek.uin-suka.ac.id/>

5	Design of First Generation of Sunan Kalijaga's High Power UV-LED Fluorescence Spectroscopy System	Proceeding International Conference on Science and Engineering	3		2020
6	Design of Data Acquisition System for Green Laser Photoacoustic Spectroscopy Using Audacity Software	Proceeding International Conference on Science and Engineering	2		2019
7	Rancang Bangun Sistem Deteksi Daging Ayam Tiren Berbasis Resistansi dan Mikrokontroler ATmega8 untuk Autentifikasi Halal	Indonesian Journal of Halal Science	1	1	2019
8	Design of modulation frequency regulator to optimize the green laser photoacoustic spectroscopy	AIP Conference Proceedings	2202	1	2019

### Involvement in the Professional Associations:

Organization name	Specific role	Level	Period
Physical Society of Indonesia	Member	National	2018-now