



STAFF HANDBOOK

Name (with title) : Anis Yuniati, S.Si., M.Si., Ph.D.

Position : Assistant Professor

Department : Physics

Email : anis.yuniati@uin-suka.ac.id

Teaching and Research Area : Biophysics and Computational Neuroscience

Academic Career:

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Physics	National Taiwan Normal University	2017
Master/MSc degree	Physics	Gadjah Mada University	2007
Undergraduate degree	Physics	Sebelas Maret University	2005

Employment:

Position	Employer	Period
Lecturer	UIN Sunan Kalijaga Yogyakarta	2009 - present
Head	Department of Physics	2020 - 2024

Primary Publications:

No	Title	Journal	Volume	Issue	Year
1	Simulation of spiking activities neuron models using the Euler method	Journal of Physics: Conference Series	1951	-	2021
2	Photoluminescence study of undoped GaAs at temperatures 300 K and 77 K	Journal of Physics: Conference Series	1825	-	2021
3	Pemodelan Struktur Dan Mekanisme Interaksi Neuron-Astrocyte Dalam Proses Transfer Informasi Dengan Simulator Brian2	Sunan Kalijaga Journal of Physics	2	2	2020
4	Pemodelan Pola Perambatan Gelombang Kalsium Pada Jaringan Astrocyte Dengan Simulator Brian2	Sunan Kalijaga Journal of Physics	2	2	2020
5	Computational study of action potential initiation and action potential	IOP Conf. Series	846	-	2020



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, website: <http://saintek.uin-suka.ac.id/>

	backpropagation in mitral cell of the olfactory bulb				
6	Analysis of Modification in Synaptic Plasticity STDP (Spike Timing Dependent Plasticity) Model by Changing Intracellular Calcium Concentration.	Kaunia: Integration and Interconnection Islam and Science	16	2	2020
7	Analisis Matematis dan Komputasi Dinamika IP3 pada Perambatan Gelombang Kalsium Persamaan Li-Rizel	Sunan Kalijaga Journal of Physics	2	1	2020
8	Enhancement Technology for Electropray Polyvinyl Alcohol (PVA) Nanofiber from Zuheros Nano: A Preliminary Study	Proc. Internat. Conf. Sci. Engin.	3	-	2020
9	Pengaruh probabilitas konektivitas neuron pada sinkronisasi jaringan saraf model HH neuron dengan STP	Sunan Kalijaga Journal of Physics	1	1	2019
10	Kajian Kombinasi Python pada Simulator NEURON untuk Penelitian di Bidang Komputasi Neurosains	Prosiding Seminar Nasional Fisika Festival	1	1	2019
11	Study of simple spectrophotometer design using LDR sensors based on Arduino Uno microcontroller	Journal of Physics: Conf. Series	1153	-	2019
12	Synchronization and Inter-Layer Interactions of Noise-Driven Neural Networks	Front. Comput. Neurosci.	11	2	2017
13	Noise driven synchronization of coupled neural networks	Biophysical Journal	110	Special Issue 3	2016

Involvement in the Professional Associations:

Organization name	Specific role	Level	Period
Physical Society of Indonesia (PSI)	Member	National	2018 - present
Biophysical Society (BPS)	Member	International	2016 - 2017