



CURRICULUM VITAE

Dr. Yulkifli, S.Pd., M.Si.

Faculty: Fakultas Matematika dan IPA

Study Programs: Fisika

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Biography

Scopus of the Last 5 Years

A Low-cost Digital Spectrophotometer for Heavy Metal Absorbance Measurements. Instruments and Experimental Techniques, Yulkifli, 2023

Automatic Transfer Switch Solar Cell Inverter System Based on Android Application. Journal of Physics: Conference Series, Audia W., 2022

Direct-current electric field effect on the viability of HeLa cell line. Electromagnetic Biology and Medicine, Muttaqin A., 2021

Molecularly Imprinted Polymer (MIPs) Nanomaterials Modified as Absorbing Cholesterol. Journal of Physics: Conference Series, Sabrina N., 2021

Is Integrated Science Book with Ethno-STEM Approach Needed by Secondary School Students?. Journal of Physics: Conference Series, Muttaqin A., 2021

Validity of interactive student worksheets based on inquiry based learning models to improve knowledge competence. Journal of Physics: Conference Series, Samudra E.Y.A., 2021

Validity of student worksheet inquiry based learning model with multi-representation approach integrated scientific literacy for grade XI physics learning on 21st century. Journal of Physics: Conference Series, Septiani T., 2021

Development of inquiry based learning model - Based student worksheets through the 21st century science process skills approach to grade XI physics learning. Journal of Physics: Conference Series, Widestra R.A., 2021

Development of electronic module using inquiry based learning (IBL) model integrated high order thinking skill (HOTS) in 21st century physics learning class X. Journal of Physics: Conference Series, Nisak F., 2021

Preliminary study of development of physics e-module using smartphone-assisted inquiry based learning models to support 21st century learning. Journal of Physics: Conference Series, Risma M., 2021

Preliminary research in the development of smartphone-based e-module learning materials using the ethno-STEM approach in 21st century education. Journal of Physics: Conference Series, Azis H., 2021

Potential Landslide Detection in Kelok Sembilan Flyover Using SAR Interferometry. International Journal on Advanced Science, Engineering and Information Technology, Razi P., 2021

Molecularly imprinted polymeric microspheres for electrochemical sensing of cholesterol. Rasayan Journal of Chemistry, Julita E., 2021

Measuring the physics students' data literacy skill in the era of industry 4.0 by using mirecal learning model. International Journal of Scientific and Technology Research, Lusiyana A., 2020

Validity of student worksheets based on inquiry based learning models assisted by tracker application. Journal of Physics: Conference Series, Fadilah R., 2020

The electrical properties of NiFe₂O₄-PVDF nanocomposite prepared by sol-gel method. Journal of Physics: Conference Series, Fadli A.H., 2020

Land deformation modelling of Taiwan earthquake using interferometry technique. Journal of Physics: Conference Series, Razi P., 2020

Preliminary analysis to develop student worksheet based on inquiry based learning model for 21st century physics learning. Journal of Physics: Conference Series, Havid M., 2020

Preliminary analysis of development electronic module using inquiry based learning model for 21st century. Journal of Physics: Conference Series, Nisak F., 2020

Preliminary analysis of interactive student worksheets development using the science process skill approaching the 21st century physics learning. Journal of Physics: Conference Series, Widestra R.A., 2020

Preliminary analysis development of interactive student worksheets using inquiry based learning model for 10th grade senior high school. Journal of Physics: Conference Series, Samudra E.Y.A., 2020

A simple colorimeter based on microcontrollers to detect food dyes. Journal of Physics: Conference Series, Yulkifli, 2020

Web of Science (WoS) of the Last 5 Years

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Google Scholar of the Last 5 Years

A Low-cost Digital Spectrophotometer for Heavy Metal Absorbance Measurements. Instruments and Experimental Techniques 66 (No.1), pp.147-155, 2023, Yulkifli, Kelvin Septa Dewantara, Mona Berlian Sari, Ramli, Pakhrur Razi ..., 2023

Development of physics e-module based on integrated projectbased learning model with Ethno-STEM approach on smartphones for senior high school students. Momentum: Physics Education Journal 6 (1), 93-103, 2022, Yulkifli, Yohandri, Hasbi Azis, 2022

Enhanced Electrochemical Sensor for Electrocatalytic Glucose Analysis in Orange Juices and Milk by the Integration of the Electron-Withdrawing Substituents on Graphene/GlassyÂ Journal of Analytical Methods in Chemistry 2022, 2022, R Zainul, IM Isa, AM Yazid, S Nur, N Hashim, SN Mohd Sharif, MI Saidin, ..., 2022

Automatic Transfer Switch Solar Cell Inverter System Based on Android Application. Journal of Physics: Conference Series 2309 (ICRLP2021), 1-9, 2022, Washilla Audia, Mairizwan, Rio Anshari, Yulkifli, 2022

The Effect of Blended Learning Model (BLM) on Student Achievements: A Meta-Analysis. Jurnal Penelitian Pendidikan IPA 8 (5), 2451-2459, 2022, A Asrizal, U Khairi, M Murtiani, V Mardian, 2022

Efektivitas E-modul Fisika Menggunakan Model Pembelajaran Berbasis Riset untuk Meningkatkan Kompetensi Peserta Didik SMA di Era Revolusi 4.0. *Jurnal Eksakta Pendidikan* 6 (1), 20-27, 2022, Mu'tia Faizah Apriani, Yulkifli, 2022

Automatic Transfer Switch System Design on Solar Cell – Grid Hybrid Based on Android Application. *Eksakta* 23 (4), 266-283, 2022, Washilla Audia, Yulkifli, Mairizwan, Aditya Rinaldi, 2022

Is Integrated Science Book with Ethno-STEM Approach Needed by Secondary School Students?. *Journal of Physics: Conference Series* 1788 (1), 012048, 2021, A Muttaqiin, M Murtiani, Y Yulkifli, 2021

Direct-current electric field effect on the viability of HeLa cell line. *Electromagnetic Biology and Medicine* 40 (1), 41-48, 2021, A Muttaqin, S Syukur, Y Yulkifli, T Alimuddin, 2021

Soil moisture measurement tools using SHT11 sensors based on the Internet of Things. *INVOTEK: Jurnal Inovasi Vokasional dan Teknologi* 21 (3), 165-174, 2021, Y Karinia, V Violita, H Tarigan, NY Sudiard, Y Yulkifli, 2021

Development of electronic module using inquiry based learning (IBL) model integrated high order thinking skill (HOTS) in 21st century physics learning class X. *Journal of Physics: Conference Series* 1876 (1), 012085, 2021, F Nisak, Y Yulkifli, 2021

Validity of Student Worksheets using Inquiry Based Learning Models with Science Technology Society Approach for Physics Learning. *International Journal of Progressive Sciences and Technologies* 25 (1), 63-68, 2021, VY Nasution, RA Widestra, Y Yulkifli, 2021

Validity of Student Worksheet Inquiry Based Learning Model with Scientific Approach Integrated Creative Thinking Skills for Grade XI Physics Learning on 21st Century. *International Journal of Progressive Sciences and Technologies (IJPSAT)* 27 ... , 2021, MH Yulkifli, 2021

Synthesis and Characterization of HPMpFBP Using Raman Spectroscopy, Nuclear Magnetic Resonance (NMR) Spectroscopy, and FTIR. *Jurnal Ilmu Fisika (JIF)* 13 (No.2), 109-117, 2021, IMI Wilda Tri Putri Yusri, Yulkifli Yulkifli, Alizar Alizar, 2021

Studi Literatur Sensor Glukosa Untuk Darah Manusia Menggunakan Sensor Elektrokimia Berbasis Glassy Carbon Electrode (GCE) dengan Metode Voltametri. *Jurnal Fisika Unand (JFU)* 10 (No.3), 324-329, 2021, IMI Widya Janatul Putri, Yulkifli, Alizar, 2021

THE DESIGN OF DISPLAY DIGITAL DATA INTERFACE CLAMP-METER COMPLEMENTED BY SENSOR GMR (GIANT MAGNETORESISTANCE). *Spektra: Jurnal Fisika dan Aplikasinya* 5 (1), 53-60, 2020, Y Yulkifli, F Afriani, Y Yohandri, R Ramli, 2020

PENGARUH KOMPOSISI CoFe₂O₄ TERHADAP SIFAT MAGNETIK NANOKOMPOSIT CoFe₂O₄/PVDF YANG DISINTESIS DENGAN METODE SOL GEL. *PILLAR OF PHYSICS* 13 (1), 2020, S Yulianti, R Ramli, 2020

Metaanalisis Pengaruh Model Pembelajaran Inkuiri Terhadap Keterampilan Proses Sains dan Literasi Saintifik. *Sainstek: Jurnal Sains dan Teknologi* 12 (2), 91-100, 2020, F Mardianti, Y Yulkifli, A Asrizal, 2020

Detektor Dosis Radiasi Gamma Menggunakan Prinsip Localized Surface Plasmon Resonance (LSPR) Nanopartikel Perak. *Sainstek: Jurnal Sains dan Teknologi* 12 (2), 44-50, 2020, T Surya, Y Yulkifli, C Imawan, N Pratiwi, D Rahmawati, 2020

DEVELOPMENT OF INTERACTIVE MULTIMEDIA MODULES IN PROBLEM-BASED LEARNING MODELS TO ENHANCE CRITICAL THINKING ABILITIES OF HIGH SCHOOL STUDENTS. *Jurnal Pendidikan Fisika* 9 (1), 1-11, 2020, S Amalia, D Djamas, Y Yulkifli, 2020

Developing Student Worksheets Using Inquiry-based Learning Model with Scientific Approach to Improve Tenth Grade Students Physics Competence. *Jurnal Penelitian Fisika dan Aplikasinya (JPFA)* 10 (1), 56-70, 2020, Y Yulkifli, R Jaafar, L Resnita, 2020

Preliminary analysis development of interactive student worksheets using inquiry based learning model for 10th grade senior high school. *Journal of Physics: Conference Series* 1481 (1), 012073, 2020, EYA Samudra, Y Yulkifli, RA Widestra, 2020

Preliminary analysis of development electronic module using inquiry based learning model for 21st century. *Journal of Physics: Conference Series* 1481 (1), 012070, 2020, F Nisak, Y Yulkifli, 2020

Preliminary analysis of interactive student worksheets development using the science process skill approaching the 21st century physics learning. *Journal of Physics: Conference Series* 1481 (1), 012072, 2020, RA Widestra, Y Yulkifli, EYA Samudra, 2020

Measuring the physics students' data literacy skill in the era of industry 4.0 by using mirecal learning model. *International Journal of Scientific and Technology Research* 9 (1), 1203-1205, 2020, A Lusiyana, Festiyed, Yulkifli, 2020

Development Of Electronic Physics Module For Class XI High School Semester 2 Using Model Inquiry Based Learning Integrated Approach Contextual Teaching And Learning. *IOSR Journal of Research & Method in Education (IOSR-JRME)* 10 (issue 2), ..., 2020, Yulkifli, Elmi Yanto, A.S, Rahmi Agustia, W., Ifzi Ihsan, Yohandri, 2020

Rancang Bangun Sistem Pengukuran Tekanan Udara Menggunakan DT-Sense Barometric Pressure Berbasis Internet of Things dengan Tampilan pada Smartphone. *Jurnal Teori dan Aplikasi Fisika* 8 (No. 1), 1-10, 2020, Indah Tri Handini, Yulkifi, Yenni Darvina, 2020

Research of the Last 5 Years

Pengembangan Early Warning System Gempa Bumi Dengan Display Smartphone Berbasis Sensor Getaran Tiga Dimensi. *Penelitian Terapan Kompetitif Nasional*, Leader: Yulkifli, Implementation Year: 2024

Pengembangan Protector Scoring System Berbasis Sensor Pada Pencak Silat Kategori Tanding Untuk Standarisasi Penilaian. *Penelitian Terapan Unggulan Perguruan Tinggi*, Leader: Nurul Ihsan, Implementation Year: 2023

Pengembangan Early Warning System Gempa Bumi Dengan Display Smartphone Berbasis Sensor Getaran Tiga Dimensi. *Penelitian Terapan Kompetitif Nasional*, Leader: Yulkifli, Implementation Year: 2023

Pengembangan Otomatisasi Instrumen Klimatologi Tanah Pertanian Berbasis Internet Of Things Dengan Display Smartphone Android. *Pt-penelitian Terapan*, Leader: Yulkifli, Implementation Year: 2022

Pengembangan Early Warning System Gempa Bumi Dengan Display Smartphone Berbasis Sensor Getaran Tiga Dimensi. *Penelitian Terapan Kompetitif Nasional*, Leader: Yulkifli, Implementation Year: 2022

Pembuatan Sensor Glukosa Berbasis Bahan Nanomaterial Zinc Nitrate Sodium Dedocyl Sulphate Fluazinam. *Penelitian Tesis Magister*, Leader: Yulkifli, Implementation Year: 2022

Pengembangan E-modul Fisika Terintegrasi Literasi Saintifik Menggunakan Model Inquiry Based Learning Berbantuan Smartphone Untuk Mendukung Pembelajaran Daring Peserta Didik Kelas X Sma. Penelitian Tesis Magister, Leader: Yulkifli, Implementation Year: 2022

Rancang Bangun Early Warning System Infus Pasien Menggunakan Sistem Otomatisasi Melalui Display Smartphone. Pt-penelitian Unggulan Perguruan Tinggi Terapan, Leader: Aulia Asman, Implementation Year: 2022

Pengembangan Dan Karakterisasi Molecularly Imprinted Polymer Silika Nanomaterial Dari Bahan Alam Sebagai Bahan Biosensor Dan Sensor Kimia. Penelitian Kerjasama Perguruan Tinggi Luar Negeri, Leader: Alizar, Implementation Year: 2022

Pengembangan Protector Scoring System Berbasis Sensor Pada Pencak Silat Kategori Tanding Untuk Standarisasi Penilaian. Penelitian Terapan Unggulan Perguruan Tinggi, Leader: Nurul Ihsan, Implementation Year: 2022

Pengembangan Bahan Ajar Ipa Terpadu Menggunakan Pendekatan Etno-stem Untuk Mendukung Pembelajaran Era Revolusi Industri 4.0. Ptpt-penelitian Terapan, Leader: Murtiani, Implementation Year: 2021

Pengembangan Model Pembelajaran Multi-representasi Pemecahan Masalah (mirecal) Untuk Meningkatkan Keterampilan Literasi Baru Mahasiswa Di Era Revolusi Industri 4.0. Penelitian Disertasi Doktor, Leader: Festiyed, Implementation Year: 2021

Pengembangan Otomatisasi Instrumen Klimatologi Tanah Pertanian Berbasis Internet Of Things Dengan Display Smartphone Android. Ptpt-penelitian Terapan, Leader: Yulkifli, Implementation Year: 2021

Pengembangan Dan Karakterisasi Molecularly Imprinted Polymer Silika Nanomaterial Dari Bahan Alam Sebagai Bahan Biosensor Dan Sensor Kimia. Pdpt-penelitian Kerjasama Perguruan Tinggi Luar Negeri Dasar, Leader: Alizar, Implementation Year: 2021

Pengembangan Sensor Glukosa Portabel Dengan Display Smartphone Android Berbasis Bahan Nano Material. Ptpt-penelitian Kerjasama Perguruan Tinggi Luar Negeri Terapan, Leader: Yulkifli, Implementation Year: 2021

Pengembangan Protector Scoring System Berbasis Sensor Pada Pencak Silat Kategori Tanding Untuk Standarisasi Penilaian. Penelitian Terapan Unggulan Perguruan Tinggi, Leader: Nurul Ihsan, Implementation Year: 2021

Pengembangan Bahan Ajar Berbasis Project Based Learning Berbantuan Science Laboratory Kit Untuk Siswa Sma. Penelitian Tesis Magister, Leader: Yohandri, Implementation Year: 2020

Pengembangan Sensor Glukosa Portabel Dengan Display Smartphone Android Berbasis Bahan Nano Material. Penelitian Kerjasama Pt Luar Negeri Terapan, Leader: Yulkifli, Implementation Year: 2020

Pengembangan Model Pembelajaran Multi-representasi Pemecahan Masalah (mirecal) Untuk Meningkatkan Keterampilan Literasi Baru Mahasiswa Di Era Revolusi Industri 4.0. Penelitian Disertasi Doktor, Leader: Festiyed, Implementation Year: 2020

Desain Dan Pembuatan Sistem Akuisisi Data Berbasis Android Dengan Display Smartphone Untuk Pengukuran Parameter Udara. Penelitian Unggulan Perguruan Tinggi Terapan, Leader: Yulkifli, Implementation Year: 2020

Rancangan Bangun Sensor Kolorimetrik Berbasis Tanaman Lokal Sumatera Barat Sebagai Instrumen Portabel Pengukur Pencemar Logam Berat. Penelitian Dasar Unggulan Perguruan Tinggi, Leader: Yulkifli, Implementation Year: 2020

Pengembangan Lkpd Berbasis Model Inquiry Based Learning (ibl) Dengan Pendekatan Multi-representasi Untuk Meningkatkan Kemampuan Kolaboratif Pada Pembelajaran Fisika Abad Ke-21. Penelitian Tesis Magister, Leader: Yulkifli, Implementation Year: 2020

Pengembangan Bahan Ajar Berbasis Discovery Learning Berbantuan Science Lab Kit Untuk Siswa Sma. Penelitian Tesis Magister, Leader: Yohandri, Implementation Year: 2020

Desian Biosensor/sensor Elektrokimia Berasaskan Mips Dan Screen Printed Electrode (spe) Untuk Deteksi Kolesterol. Penelitian Kerjasama Pt Luar Negeri Dasar, Leader: Alizar, Implementation Year: 2020

Pengembangan Nano Komposit Mfe2o4 (m=fe,co,ni) Dalam Poly Vinillidene Flouride Untuk Aplikasi Divais Spintronika Yang Fleksibel. Penelitian Dasar, Leader: Ramli, Implementation Year: 2020

Community Service of the Last 5 Years

Pengembangan Peralatan Praktikum Fisika Dengan Display Smartphone Berbantuan Iot. Program Pengembangan Usaha Produk Intelektual Kampus (ppupik), Leader: Yulkifli, Implementation Year: 2022

Pengembangan Usaha Produk Peralatan Praktikum Fisika. Program Pengembangan Usaha Produk Intelektual Kampus (ppupik), Leader: Yulkifli, Implementation Year: 2020

IPR's of the Last 5 Years

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Book of the Last 5 Years

LKPD berbasis model inquiry based learning dengan pendekatan multirepresentasi terintegrasi literasi saintifik. ISBN: 9786025994685, Publisher: CV. Berkah Prima, Year: 2020

LKPD interaktif model inquiry based learning menggunakan pendekatan keterampilan proses terintegrasi literasi saintifik. ISBN: 9786025994692, Publisher: CV. Berkah Prima, Year: 2020

Colorimeter dengan display smartphone. ISBN: 9786025994715, Publisher: CV. Berkah Prima, Year: 2020
