



CURRICULUM VITAE

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Biography

Prof. Dr. Rahadian Zainul, S.Pd., M.Si. is an expert in the field of Computational and Physical Chemistry and serves as a professor in the Chemistry Department, Faculty of Mathematics and Natural Sciences at Universitas Negeri Padang. He was born in Sungai Penuh on January 21, 1974. His formal education includes a Bachelor's degree in Chemical Education obtained from IKIP Padang during 1992-1997, a Master's degree in Chemistry from Andalas University in 1999, and a Doctorate in Chemistry from the same university in 2015. As a dedicated academician, Prof. Zainul currently holds several key positions at his university, including Secretary of LPPM UNP since 2023, Head of the UNP Campbiotics (Center for Advanced Material Processing, Artificial Intelligence and Biophysics Informatics) Center since 2021, and Head of the Center for Publication, Intellectual Property Rights and Innovation (PPHKI-Innovation) since early 2023. Beyond his academic activities, Prof. Zainul is also a successful entrepreneur with ownership of 7 Foundations focused on IT and Education, Social, and Economic sectors. He is the founder of Insparagon, managing 10 International Publishers and owning various publishing companies that oversee more than 10 international journals across various fields. His research proficiency is reflected in his focus on physical chemistry, with his scientific works being cited more than 2000 times. Prof. Zainul has impressive Scopus & Google Scholar H-Indexes, 15 & 33 respectively, and has recorded 682 citations and 123 publications in Scopus. In the past five years, he has written over 126 technical articles, published 100 books, edited 16 books, and holds a patent for an invention titled "Hexagonal Photoreactor Thin Plate Copper Oxide to Generate Electricity from Room Light and the Process of Making Thin Plate Copper Oxide". Additionally, he has registered 91 patents, 5 trademarks, and 61 copyrights. In research, Prof. Zainul has led various projects, including Copper Oxide Photocatalyst Material, Room Light Photoreactor, Blended System in Indonesia, Anti-Covid Coating Material, and High Sensitivity Sensor for Glucose in international collaboration with UPSI Malaysia. He is also active in community service activities and has received research funding from various institutions and established collaborations with international researchers. Prof. Zainul continues to make significant contributions to the academic and research world through his relentless hard work and dedication.

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Disain Dan Modifikasi Sensor Glukosa Elektrokimia Sensitivitas Tinggi Berbasis Elektroda Komposit Graphene/1-penil-3-metil-4-benzoil-5-pirazolone Termodifikasi. Penelitian Kerjasama Perguruan Tinggi Luar Negeri, Leader: Rahadian Zainul, Implementation Year: 2022

Pengembangan Model Pembelajaran Guided Discovery Blended Learning (gdbl) Pada Materi Asam Basa Untuk Sekolah Penggerak Di Sma/ma. Penelitian Tesis Magister, Leader: Rahadian Zainul, Implementation Year: 2022

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Pengembangan Modul Elektronik (e-modul) Dengan Virtual Lab Berbasis Model 5e Instructional Pada Materi Kesetimbangan Kimia Untuk Meningkatkan Kemampuan Berpikir Kritis Peserta Didik Di Sma/ma. Penelitian Tesis Magister, Leader: Rahadian Zainul, Implementation Year: 2022

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Pengembangan Content Learning System Berbasis Discovery Learning Pada Materi Struktur Atom Dan Sistem Periodik Unsur Kelas X Smk Untuk Meningkatkan Keterampilan Berpikir Tingkat Tinggi. Penelitian Tesis Magister, Leader: Rahadian Zainul, Implementation Year: 2021

Pengembangan Sistem Blended Learning Pada Mkd Di Lptk. Konsorsium Riset Unggulan Perguruan Tinggi, Leader: Rahadian Zainul, Implementation Year: 2021

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Community Service of the Last 5 Years

â??program Pengembangan Produk Unggulan E-learning Pembelajaran Kimia Sma Yang Terintegrasi Dari Produk Riset Unggulan Kuliah Smart Bagi Guru-guru Mgmp Kimia Kota Padang Panjang. Program Pengembangan Produk Unggulan Pt (p3upt), Leader: Rahadian Zainul, Implementation Year: 2022

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Workshop Pengembangan E-modul Berbasis Guided Discovery Learning Menggunakan Software Sigil Pada Guru-guru Anggota Mgmp Kimia Kota Padang Panjang. Program Kemitraan Masyarakat (pkm), Leader: Budhi Oktavia, Implementation Year: 2021

IPR's of the Last 5 Years

Prototype Nano Tembaga Untuk Aplikasi Material Anti Bakteri Pada Semen Portland. Inventor: Prof. Dr. Rahadian Zainul, S.Pd, M.Si, Dr. Fajriah Azra, M.Si, dkk, Publication Date: 2022-09-10

Prototype Modul Elektronik (E-Modul) Dengan Virtual Lab Berbasis Model 5E Instructional Pada Materi Kesetimbangan Kimia Untuk Meningkatkan Kemampuan Berpikir Kritis Peserta Didik Di SMA/MA. Inventor: Prof. Dr. Rahadian Zainul, S.Pd., M.Si., Publication Date: 2022-12-17

i-Kelas Universitas. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si., Publication Date: 2022-01-01

Teknologi Tepat Guna Cat Tembok Anti Bakteri. Inventor: Prof. Dr. Rahadian Zainul, S.Pd, M.Si, Dr. Dwi Hilda, S.Si, M.Si, Mirella Fonda Maahury, S.Si, M.Si, Publication Date: 2022-09-22

Prototype Machine Learning Takambang Untuk Prediksi Ekstrak Herbal Sebagai Anti Viral Sers Cov-2. Inventor: Prof. Dr. Rahadian Zainul, S.Pd., M.Si., Publication Date: 2022-12-20

PROTOTYPE E-MODUL BERBASIS 5E INSTRUCTIONAL UNTUK MENINGKATKAN KETERAMPILAN BERPIKIR KRITIS PADA MATERI KESETIMBANGAN KIMIA. Inventor: Prof. Dr. Rahadian Zainul, S.Pd, M.Si, Prof. Dr. Ellizar, M.Pd, dkk, Publication Date: 2022-09-23

Disain Dan Aplikasi Machine Learning Prediksi Obat Herbal Anti Covid-19 Berbasis Etnobotani Di Sumatra Barat. Inventor: Prof. Dr. Rahadian Zainul, S.Pd., M.Si., Publication Date: 2022-12-20

PROTOTYPE MINI SERVER OFF GRID UNTUK PEMBELAJARAN JARAK JAUH. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si., Drs. Sriadhi, M.Pd., M.Kom., Ph.D., Prof. Drs. Ganefri, M. Pd, Ph,D, Dr. Khairuddin, M. Kes, AIFO, Dr. Muhammad Adri, S.Pd, MT, Dr. K, Publication Date: 2022-01-01

Prototype Sensor Elektrokimia Resistivitas Tinggi Berbasis Carbon/Graphene. Inventor: Prof. Dr. Rahadian Zainul, S.Pd, M.Si, Budi Oktavia, S.Si, M.Si, Ph.D, Prof. Dr. Ilyas Md Isa, Prof. Dr. nat. Karna Wijaya, M.ENG, Prof. Fitria Rahmawati, M.Si, Devi Purnamasari, S.Psi, MKM, Publication Date: 2022-09-10

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Prototype Sensor Pasta Menggunakan Multi-Wall-Carbon Nanotube (MWCNT) Untuk Aplikasi Lingkungan.

Inventor: Prof. Dr. Rahadian Zainul, S.Pd., M.Si., Publication Date: 2022-12-20

Teknologi Tepat Guna Nanomaterial Tembaga Untuk Pembuatan Cat Anti Bakteri. Inventor: Prof. Dr. Rahadian

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PROTOTYPE SISTEM APLIKASI PEMBELAJARAN BLENDED. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si., Drs. Sriadhi, M.Pd., M.Kom., Ph.D., Prof. Drs. Ganefri, M. Pd, Ph,D, Dr. Khairuddin, M. Kes, AIFO, Dr. Muhammad Adri, S.Pd, MT, Dr. K, Publication Date: 2022-01-01

Prototype Film Coating Oksida Logam Anti Mikroorganisme. Inventor: Prof. Dr. Rahadian Zainul, S.Pd, M.Si, Dr. Dwi Hilda, S.Si, M.Si, Mirella Fonda Maahury, S.Si, M.Si, Publication Date: 2022-09-22

Disain Modifikasi Dan Fabrikasi Film-Coating Nano-Cu₂O/CuO Untuk Aplikasi Anti Virus Covid-19 Pada Cahaya Ruang. Inventor: Prof. Dr. Rahadian Zainul, S.Pd., M.Si., Publication Date: 2022-12-20

Konsorsium Inovasi Pendidikan Indonesia (Ki-Pi.org). Inventor: Dr. Rahadian Zainul, S.Pd., M.Si., Prof. Drs. Ganefri, M. Pd, Ph,D, Dr. Khairuddin, M. Kes, AIFO, Dr. Muhammad Adri, S.Pd, MT, Drs. Sriadhi, M.Pd., M.Kom., Ph.D., Dr. K, Publication Date: 2022-01-28

Disain Dan Modifikasi Nanomaterial Mikrobiologi Dengan Menggunakan Pendekatan Molekuler Dan Komputasi DFTB+. Inventor: Prof. Dr. Rahadian Zainul, S.Pd., M.Si., Publication Date: 2022-12-20

Cat Antibakteri Oksida Logam. Inventor: Prof. Dr. Rahadian Zainul, S.Pd., M.Si.; Dr. Dwi Hilda, S.Si., M.Si.; Mirella Fonda Maahury, M.Si., Publication Date: 2022-09-22

METODE PEMBUATAN MIE HIJAU DENGAN SARI PATI SAWI (BRASSICA CHINENSIS VAR.

PARACHINENSIS). Inventor: Dr. Rahadian Zainul, S.Pd., M.Si.; Jesica Nondra Mita, Publication Date: 2021-12-28

Prototype Of Hexagonal Photo-Reactor For Degradation Humic Acid Using Cu-Zno As A Catalyst In Visible Lights. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si.; Fauzan Yan Hawari; Ghoury Kharisma Anjali; Intan Anika Putri; Sintia Noveliza, Publication Date: 2021-07-21

Panduan Kuliah Smart App Berbasis Android. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si., Dr. Muhammad Adri, S.Pd., M.T., Drs. Sriadhi, M.Pd., M.Kom., Ph.D., Dr. Khaerudin, M.Pd, Neni Wahyuningtyas, S.Pd., M.Pd., rof. Dr. D, Publication Date: 2021-05-01

Synthesis of Sodium Silicate (Na₂SiO₃) from Natural Silica using Sodium Hydroxide (NaOH). Inventor: Budhi Oktavia, S.Si, M.Si, Ph.D; Illa Ramadhani, S.Si; Dr. Rahadian Zainul, S.Pd, M.Si, Publication Date: 2021-10-01

Kuliah Smart Program Kuliah MKDK Belajar Pembelajaran Pada LPTK Di Indonesia. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si., Dr. Muhammad Adri, S.Pd., M.T., Drs. Sriadhi, M.Pd., M.Kom., Ph.D., Dr. Khaerudin, M.Pd, Neni Wahyuningtyas, S.Pd., M.Pd., rof. Dr. D, Publication Date: 2021-05-01

Kuliah Smart Program Kuliah MKDK Landasan Kependidikan pada LPTK di Indonesia. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si.; Dr. Muhammad Adri, S.Pd, MT; Drs. Sriadhi, M.Pd., M.Kom., Ph.D.; Dr. Khaerudin, M.Pd; Neny Wahyuningtyas, M.Pd; Prof. Dr. Darni, M.Hum.; Prof. Drs. Ganefri, M. Pd, Ph,D; Dr. Khairuddin, M. Kes, AIFO, Publication Date: 2021-05-01

METODE PENGOLAHAN SUSU SEHAT DENGAN PENAMBAHAN EKSTRAK JELLY (JELLY MILK DRINK).
Inventor: Rifqi Aulia Zaim, S.Pd., M.Pd.T; Dr. Rahadian Zainul, S.Pd., M.Si; Al Mukmin Arif, Publication Date:
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MODEL PEMBENTUKAN UMKM DI KOTA PADANG: SUATU PERSPEKTIF LITERASI KEUANGAN, INKLUSI
KEUANGAN, INTERNAL LOCUS OF CONTROL DAN RISK PERCEPTION. Inventor: Megawati, S.E., M.M; Aimatul
Yumna, S.E, M.Fin, Ph.D; Charoline Cheisviyanny, S.E, M.Ak, Ak, Publication Date: 2021-10-04

KuliahSmart.com Website Perkuliahan Online. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si., Dr. Muhammad Adri,
S.Pd., M.T., Drs. Sriadhi, M.Pd., M.Kom., Ph.D., Dr. Khaerudin, M.Pd, Neni Wahyuningtyas, S.Pd., M.Pd., rof. Dr.
D, Publication Date: 2021-05-01

Pemanfaatan Kulit Lengkeng Sebagai Material Adsorben Zat Warna Dalam Limbah Cair. Inventor: Dr. Desy
Kurniawati, S.Pd., M.Si.; Mifthahul Khair., S.Si.,M.Sc.,Ph.D, Publication Date: 2021-08-04

Kuliah Smart. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si; Dr. Khaerudin, M.Pd; Dr. Khairuddin, M. Kes, AIFO; Dr.
Muhammad Adri, S.Pd, MT; Drs. Sriadhi, M.Pd., M.Kom., Ph.D; Neny Wahyuningtyas, M.Pd; Prof. Dr. Darni,
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Hydrogen Dry Cell Generator for Hydrogen Production by Spliting Water. Inventor: Prof. Dr. Rahadian Z, S.Pd,
M.Si.; Efran Ustia Rahmad; Wahdiny Prima; Andini Khairunnisa; Delsya Helvira Suci, Publication Date: 2021-08-20

i-KELAS UNIVERSITAS. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si., Publication Date: 2021-12-31

Panduan Perkuliahan KuliahSmart.com Bagi Dosen/Tutor. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si., Dr.
Muhammad Adri, S.Pd., M.T., Drs. Sriadhi, M.Pd., M.Kom., Ph.D., Dr. Khaerudin, M.Pd, Neni Wahyuningtyas,
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KULIAH SMART. Inventor: Dr. Rahadian Zainul, S.Pd., M.Si., Dr. Khairuddin, M. Kes, AIFO, Drs. Sriadhi, M.Pd.,
M.Kom., Ph.D., Dr. Muhammad Adri, S.Pd, MT, Prof. Dr. Darni, M.Hum., Neny Wahyunin, Publication Date:
2021-03-29

Instrumen Digital untuk Uji Terapan Sistem Pembelajaran pada Produk Pembelajaran Kuliah Smart. Inventor: Dr.
Rahadian Zainul, S.Pd., M.Si.; Dr. Muhammad Adri, S.Pd, MT; Drs. Sriadhi, M.Pd., M.Kom., Ph.D.; Dr. Khaerudin,
M.Pd; Neni Wahyuningtyas, M.Pd; Prof. Dr. Darni, M.Hum.; Prof. Drs. Ganefri, M. Pd, Ph,D; Dr. Khairuddin, M. Kes,
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