



## CURRICULUM VITAE

**Alizar, S.Pd., M.Sc., Ph.D.**

**Faculty:** Fakultas Matematika dan IPA

**Study Programs:** Kimia

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### Biography

Alizar, S.Pd, M.Sc, Ph.D received his PhD degree in 2012 in the area of optical and electrochemical biosensor from the School of Chemical Sciences and Food Technology, Faculty of Science & Technology, Universiti Kebangsaan Malaysia under the supervision of Professor Dr. Lee Yook Heng and Professor Dr. Musa Ahmad. In year 2007, he received his master of science in chemical science (chemical sensor) from Universiti Kebangsaan Malaysia. After completing his PhD, he worked as a postdoctoral researcher at the Universiti Kebangsaan Malaysia. from 2014 until now he has joined the chemistry department of FMIPA Universitas Negeri Padang as a senior lecturer

### Scopus of the Last 5 Years

Development of detection methods for the diagnosis and analysis of highly toxic metal phosphides: A comprehensive and critical review. *Biotechnology and Applied Biochemistry*, Mohammadinejad A., 2022

ADSORPTION BEHAVIOUR OF P-NITROPHENOL IN AQUEOUS MEDIUM ON NON-TREATED SABA AND LADY FINGER BANANA PEELS. *Malaysian Journal of Microscopy*, Bakar N.A., 2022

SYNTHESIS OF MOLECULARLY IMPRINTED POLYMER OF BISPHENOL A GLYCEROLATE DIMETHACRYLATE (BIS-GMA/FA) FOR FORMALDEHYDE RECOGNITION SYSTEM IN AQUEOUS MEDIUM. *Malaysian Journal of Microscopy*, Sfoog A.A.A., 2022

DEVELOP AND CHARACTERIZATION OF MOLECULARLY IMPRINTED CONDUCTING POLYMER (MICP) AS URIC ACID ABSORBING MATERIAL. *Rasayan Journal of Chemistry*, Gussarsi N., 2022

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

Improving Students' Critical Thinking Skills through Student Worksheet Colloid Systems Based on Discovery Learning and Multiple Representations at Senior High School. *Journal of Physics: Conference Series*, Sari Z.R.P., 2021

Synthesis of Conducting Polyaniline with Photopolymerization Method and Characterization. *Journal of Physics: Conference Series*, Joana Sury S.V., 2021

The fabrication of portland composite cement based on pozzolan napa soil. *Materials*, Mawardi M., 2021

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

Sandwich-type DNA micro-optode based on gold latex spheres label for reflectance dengue virus detection. *Sensors (Switzerland)*, Jeningsih, 2020

Validity and practicality of chemical equilibrium module based on structured inquiry with three levels representation for students grade XI of senior high school. *Journal of Physics: Conference Series*, Nurhasanah, 2020

Optimization of complex NH<sub>3</sub> with Cu<sup>2+</sup> ions to determine levels of ammonia by UV-Vis spectrophotometer. Journal of Physics: Conference Series, Guspita D., 2020

Validity and practicality level of structured inquiry-based reaction rate module containing macro, submicro and symbolic representation. Journal of Physics: Conference Series, Murni H.P., 2020

Design and characterization of membrane molecularly imprinted polymer (MIP) as cholesterol absorbent. Journal of Physics: Conference Series, Niesa J., 2020

An ammonia optical sensor silica microspheres doped with nickel(II) ion and reflectance transduction. Rasayan Journal of Chemistry, Ulianas A., 2020

Synergistic effect of zinc/aluminium-layered double hydroxide-clopyralid carbon nanotubes paste electrode in the electrochemical response of dopamine, acetaminophen, and bisphenol A. International Journal of Electrochemical Science, Azis N.A., 2020

Zinc layered hydroxide-sodium dodecyl sulphate-isopropyl carb modified multiwalled carbon nanotubes as sensor for electrochemical determination of dopamine in alkaline medium. International Journal of Electrochemical Science, Ahmad M., 2019

Voltammetric determination of bisphenol a in the presence of uric acid using a Zn/Al-LDH-QM modified MWCNT paste electrode. International Journal of Electrochemical Science, Azis N., 2019

Systematic review on biosensors for the early detection of mycotoxins as endocrine disruptors. Food Control, Hassan R.A., 2024

Synthesis and characterization molecularly imprinted polymers (MIPs)-silica as absorption for uric acid in blood. AIP Conference Proceedings, Wahyudi, 2023

Uric acid analysis using AgNO<sub>3</sub> with UV-Vis spectrophotometry method. AIP Conference Proceedings, A'In N.N., 2023

Optimization of molecularly imprinted polymers (MIPs) membrane absorption for uric acid. AIP Conference Proceedings, Azwir N., 2023

Optimization of molecularly imprinted polymers (MIPs) microsphere absorption for uric acid. AIP Conference Proceedings, Fauzi I.G., 2023

A Nanocomposite Paste Electrode Sensor for Simultaneous Detection of Uric Acid and Bisphenol A Using Zinc Hydroxide Nitrate-Sodium Dodecylsulfate Bispyribac. Sensors (Basel, Switzerland), Yulkifli Y., 2023

### Web of Science (WoS) of the Last 5 Years

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### Google Scholar of the Last 5 Years

Development of Student Worksheet Base on STEAM-PjBL Integrated on Reaction Rate Material for Senior high School Class XI. CHEMISTRY SMART 2 (01), 2023, RR Kania, E Effendi, A Ulianas, 2023

Development of detection methods for the diagnosis and analysis of highly toxic metal phosphides: A comprehensive and critical review. *Biotechnology and Applied Biochemistry* 69 (3), 1121-1147, 2022, A Mohammadinejad, KS Rizi, RK Oskuee, E Aryan, Z Meshkat, A Ulianas, ..., 2022

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SYNTHESIS OF MOLECULARLY IMPRINTED POLYMER OF BISPHENOL A GLYCEROLATE DIMETHACRYLATE (BIS-GMA/FA) FOR FORMALDEHYDE RECOGNITION SYSTEM IN AQUEOUS MEDIUM. *Malaysian Journal of Microscopy* 18 (2), 201-214, 2022, AAS Almajed, NA Bakar, NA Rahim, WRW Mahamod, N Hashim, ..., 2022

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Studi Literatur Penggunaan Bahan Ajar Berorientasi Chemistry Triangle Pada Materi Kimia Terhadap Hasil Belajar Peserta Didik. *Ranah Research: Journal of Multidisciplinary Research and Development* 3 (2) ..., 2021, KV Sari, A Ulianas, 2021

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Synthesis of conducting polyaniline with photopolymerization method and characterization. *Journal of Physics: Conference Series* 1788 (1), 012004, 2021, SVJ Sury, A Ulianas, S Aini, 2021

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Improving Students' Critical Thinking Skills Through Student Worksheet Colloid Systems Based On Discovery Learning and Multiple Representations at Senior High School. *Journal of Physics: Conference Series* 1788 (1), 012030, 2021, ZRP Sari, A Ulianas, A Putra, Z Rahadian, 2021

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The Fabrication of Portland Composite Cement Based on Pozzolan Napa Soil. *Materials* 14 (13), 3638 - 3652., 2021, M Mawardi\*, IM Isa, A Ulianas, S Edtri, M Fadhlurrahman, ZP Rizky, 2021

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Sintesis Membran Molecularly Imprinted Polymers (MIPs) dan Karakterisasinya sebagai Bahan Penyerap Asam Urat. *Periodic* 8 (2), 51-56, 2021, R Atika, A Ulianas, 2021

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Analisis Miskonsepsi Peserta Didik pada Materi Hidrolisis Garam Menggunakan Instrumen Three-Tier Diagnostic Test di SMAN 2 Solok. *Entalpi Pendidikan Kimia* 2 (3), 84-92, 2021, Y Suca, A Ulianas, 2021

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Analysis of Students Misconception using Two-Tier Multiple Choice Diagnostic Test on Electrolyte and Nonelectrolyte Topic in SMAN 2 Padang. *International Journal of Progressive Sciences and Technologies* 29 (1), 533-541, 2021, LA Fany, A Ulianas, 2021

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Development of detection methods for the diagnosis and analysis of highly toxic metal phosphides: A comprehensive and critical review. *Biotechnology and Applied Biochemistry*, 2021, A Mohammadinejad, KS Rizi, RK Oskuee, E Aryan, Z Meshkat, A Ulianas, ..., 2021

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Sandwich-type DNA micro-optode based on gold–latex spheres label for reflectance dengue virus detection. *Sensors* 20 (7), 1820, 2020, Jeningsih, LL Tan, A Ulianas, LY Heng, NF Mazlan, ND Jamaluddin, ..., 2020

An Ammonia Optical Sensor Silica Microspheres Doped With Nickel(II) Ion and Reflectance Transduction. *Rasayan J. Chem.* 13 (2), 860 - 867, 2020, A Ulianas<sup>1</sup>, O Andini, M Mawardi, R Ramli, TL Ling, 2020

Validity and practicality level of structured inquiry-based reaction rate module containing macro, submicro and symbolic representation. *Journal of Physics: Conference Series* 1481 (1), 012080, 2020, HP Murni, M Azhar, A Ulianas, 2020

Validity and practicality of chemical equilibrium module based on structured inquiry with three levels representation for students grade XI of senior high school. *Journal of Physics: Conference Series* 1481 (1), 012084, 2020, M Azhar, A Ulianas, 2020

Design and characterization of membrane molecularly imprinted polymer (MIP) as cholesterol absorbent. *Journal of Physics: Conference Series* 1481 (1), 012031, 2020, J Niesa, A Ulianas, 2020

Synergistic Effect of Zinc/Aluminium-Layered Double Hydroxide-Clopyralid Carbon Nanotubes Paste Electrode in the Electrochemical Response of Dopamine, Acetaminophen, and  $\text{As}^{3+}$  .... *International Journal of Electrochemical Science* 15 (8), 9088-9107, AA Nurashikin, IM Isa, N Hashim, MS Ahmad, R Zainul, NAMY Siti, ..., 2020

The Influences of the CLIS Model Used in Students Learning Outcomes on Electrolyte and Nonelectrolyte Solutions at SMAN 1 Padang. *Edukimia* 2 (3), 117-121, A Aulia, A Ulianas, 2020

Optimization of complex  $\text{NH}_3$  with  $\text{Cu}^{2+}$  ions to determine levels of ammonia by UV-Vis spectrophotometer. *Journal of Physics: Conference Series* 1481 (1), 012040, 2020, D Guspita, A Ulianas, 2020

The Influences of the CLIS Model Used in Students Learning Outcomes on Electrolyte and Nonelectrolyte Solutions. *Edukimia* 2 (3), 117-121, 2020, A Aulia, A Ulianas, 2020

Guidance on Writing Proposals and Carrying Out Classroom Action Research (PTK) and Making PTK Reports in Article Form For High School Chemistry Teachers in Bukittinggi City. *Pelita Eksakta* 3 (2), 129-135, 2020, A Ulianas, M Azhar, E Yusmaita, M Khair, Y Fitria, H Parbuntari, ..., 2020

Sintesis Nanopartikel Magnetik Besi Oksida ( $\text{Fe}_3\text{O}_4$ ) Metode Green Chemistry Dengan Ekstrak Daun Sirih Merah (Piper Crocatum). *Periodic* 9 (2), 42-46, 2020, R Khaira, A Ulianas, M Azhar, M Anwar, 2020

Sintesis dan Karakterisasi Magnetik Nanopartikel  $\text{NiFe}_2\text{O}_4$  Menggunakan Ekstrak Kulit Buah Naga (*Hylocereus Polyrhizus*). Universitas Negeri Padang, 2020, S Rahmawita, 2020

Synergistic Effect of Zinc/aluminium-layered Double Hydroxide-clopyralid Carbon Nanotubes Paste Electrode in the Electrochemical Response of Dopamine, Acetaminophen, and  $\text{As}^{3+}$  .... *International Journal of Electrochemical Science* 15 (8), 9088-9107, 2020, AA Nurashikin, IM Isa, N Hashim, MS Ahmad, R Zainul, NAMY Siti, ..., 2020

Sintesis Membran Molecularly Imprinted Polymers (MIPs) dengan Metoda Photopolimerisasi sebagai Bahan Penyerap Glukosa. Universitas Negeri Padang, 2020, FA Pihanda, 2020

Sintesis dan Karakterisasi Magnetik Nanopartikel  $\text{NiFe}_2\text{O}_4$  Menggunakan Ekstrak Kulit Buah Naga (*Hylocereus Polyrhizus*). Universitas Negeri Padang, 2020, S Rahmawita, A Ulianas, 2020

Zinc layered hydroxide-sodium dodecyl sulphate-isoprocarb modified multiwalled carbon nanotubes as sensor for electrochemical determination of dopamine in alkaline medium. *International Journal of Electrochemical Science* 14 (9), 9080-9091, 2019, MS Ahmad, IM Isa, N Hashim, MI Saidin, SM Si, R Zainul, A Ulianas, ..., 2019

ANALISIS PENYEBAB KESULITAN SUB MATERI POKOK KIMIA SEMESTER 1 KELAS X IPA 3 MENGGUNAKAN METODE LEAN SIX SIGMA DI SMA NEGERI 8 PADANG. *Ranah Research: Journal of Multidisciplinary Research and Development* 1 (4) ..., 2019, E Laila, A Ulianas, 2019

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HUBUNGAN PERSEPSI SISWA TENTANG PENGELOLAAN KELAS OLEH GURU DENGAN HASIL BELAJAR KIMIA KELAS XI SMA. *Ranah Research: Journal of Multidisciplinary Research and Development* 1 (4) ..., 2019, WA Suryanti, A Ulianas, 2019

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Classroom Action Research (CAR) Guidance and Article Writing Techniques for Chemistry Teachers in Limapuluh Kota District High School. *Pelita Eksakta* 2 (1), 22-27, 2019, A Ulianas, 2019

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Voltammetric determination of bisphenol a in the presence of uric acid using a zn/al-ldh-qm modified MWCNT paste electrode. *International Journal of Electrochemical Science* 14 (11), 10607-10621, 2019, N Abd Azis, IM Isa, N Hashim, MS Ahmad, SNAM Yazid, MI Saidin, SM Si, ..., 2019

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Mental and Understanding of Grade XI High School in the Reaction Rate Material. , HP Murni, M Azhar, A Ulianas, 2019

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Sintesis Membran Molecularly Imprinted Polymers (MIPs) dengan Metoda Photopolimerisasi sebagai Bahan Penyerap Glukosa. *Periodic* 8 (2), 27-32, 2019, FA Pihanda, A Ulianas, 2019

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Mental Models and Understanding Student of Grade XI High School in the Reaction Rate Material. *International Journal of Progressive Sciences and Technologies (IJPSAT)* 13 ... , 2019, HP Murni, M Azhar, A Ulianas, 2019

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Optimization of molecularly imprinted polymers (MIPs) microsphere absorption for uric acid. *AIP Conference Proceedings* 2673 (1), 2023, IG Fauzi, A Ulianas, N Azwir, W Wahyudi, NN A'in, 2023

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Optimization of molecularly imprinted polymers (MIPs) membrane absorption for uric acid. *AIP Conference Proceedings* 2673 (1), 2023, N Azwir, A Ulianas, W Wahyudi, NN Ain, IG Fauzi, 2023

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Pengaruh Waktu Perendaman Terhadap Penyerapan Asam Urat Menggunakan Membran Molecularly Imprinted Conducting Polimers (MICPs). *Jurnal Periodic Jurusan Kimia UNP* 12 (1), 35-38, 2023, N Gussarsi, B Oktavia, A Ulianas, 2023

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A Nanocomposite Paste Electrode Sensor for Simultaneous Detection of Uric Acid and Bisphenol A Using Zinc Hydroxide Nitrate-Sodium Dodecylsulfate Bispyribac. *Sensors* 23 (20), 8366, 2023, Y Yulkifli, WP Yandes, IM Isa, N Hashim, A Ulianas, SNM Sharif, MI Saidin, ..., 2023

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Sintesis Polianilin (PANI) yang di Doping Besi (III) Oksida Menggunakan Metode Fotopolimerisasi. *Periodic* 12 (3), 8-12, 2023, N Nofianti, A Ulianas, D Kurniawati, 2023

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Pengembangan Lembar Kerja Peserta Didik (LKPD) Kimia Hijau Berbasis Problem Based Learning Untuk Fase E. *Jurnal Pendidikan Tambusai* 7 (3), 24428-24435, 2023, NF Zai, A Ulianas, 2023

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Systematic review on biosensors for the early detection of mycotoxins as endocrine disruptors. *Food Control*, 110195, 2023, RA Hassan, SA Hanifah, LY Heng, F Al-badaii, A Ulianas, 2023

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Pengembangan Lembar Kerja Peserta Didik (LKPD) Berbasis Project Based Learning Pada Materi Kimia Hijau Fase E SMA. *Jurnal Pendidikan Tambusai* 7 (2), 9581-9589, 2023, F Kurnia, A Ulianas, 2023

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DEVELOP AND CHARACTERIZATION OF MOLECULARLY IMPRINTED CONDUCTING POLYMER (MICP) AS URIC ACID ABSORBING MATERIAL. *Rasayan Journal of Chemistry* 15 (4), 2022, N Gussarsi, A Ulianas, B Oktavia, S Aini, TL Ling, SA Hanifah, RA Hassan, 2022

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MOLECULARLY IMPRINTED POLYMERIC MICROSPHERES FOR ELECTROCHEMICAL SENSING OF CHOLESTEROL.. *Rasayan Journal of Chemistry* 14 (3), 2021, E Julita, A Ulianas, MS Ahmad, IM Isa, TL Ling, Y Yolanda, M Rezayi, 2021

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### Research of the Last 5 Years

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

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

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Desain Dan Karakterisasi Nanomaterial Conducting Molecularly Imprinted Polymer (c-mips) Sebagai Bahan Dasar Biosensor/sensor Kimia. Pdpt-penelitian Dasar, Leader: Alizar, Implementation Year: 2021

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Sintesis Dan Karakterisasi Nanomaterial Sebagai Bahan Sensor Sianida. Penelitian Dasar, Leader: Alizar, Implementation Year: 2021

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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

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Sintesis Nanomaterial Molecularly Imprinted Polymers (mips) Dengan Metode Potopolimerisasi Dan Karakterisasinya Untuk Bahan Biosensor & Sensor Kimia. Penelitian Dasar Unggulan Perguruan Tinggi, Leader: Alizar, Implementation Year: 2020

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Desain Dan Karakterisasi Nanomaterial Conducting Molecularly Imprinted Polymer (c-mips) Sebagai Bahan Dasar Biosensor/sensor Kimia. Penelitian Dasar, Leader: Alizar, Implementation Year: 2020

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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

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Sintesis Dan Karakterisasi Nanomaterial Sebagai Bahan Sensor Sianida. Penelitian Dasar, Leader: Alizar, Implementation Year: 2020

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

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Desian Biosensor/sensor Elektrokimia Berasaskan Mips Dan Screen Printed Electrode (spe) Untuk Deteksi Kolesterol. Penelitian Kerjasama Pt Luar Negeri Dasar, Leader: Alizar, Implementation Year: 2019

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Pengembangan Modul Berbasis Inkuiri Terstruktur Menggunakan Tiga Level Representasi Untuk Meningkatkan Model Mental Siswa Pada Materi Laju Reaksi Dan Keseimbangan Kimia. Penelitian Tesis Magister, Leader: Minda Azhar, Implementation Year: 2019

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Sintesis Dan Karakterisasi Nanomaterial Sebagai Bahan Sensor Sianida. Penelitian Dasar, Leader: Alizar, Implementation Year: 2019

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Sintesis Nanomaterial Molecularly Imprinted Polymers (mips) Dengan Metode Potopolimerisasi Dan Karakterisasinya Untuk Bahan Biosensor & Sensor Kimia. Penelitian Dasar Unggulan Perguruan Tinggi, Leader: Alizar, Implementation Year: 2019

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### Community Service of the Last 5 Years

Pelatihan Pembuatan Media Pembelajaran Ppt-ispring Berbasis Ict Dengan Penekanan Pada Tiga Level Representasi Kimia Bagi Guru Kimia Smk Dan Sma N Kabupaten Padang Pariaman. Program Kemitraan Masyarakat (pkm), Leader: Minda Azhar, Implementation Year: 2021

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Pelatihan Pengembangan Media Pembelajaran Powerpoint-ispring Berbasis Ict Dengan Penekanan Pada Tiga Level Representasi Untuk Guru Fisika, Kimia Dan Biologi Man 2 Kota Padang. Program Kemitraan Masyarakat (pkm), Leader: Minda Azhar, Implementation Year: 2020

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Pelatihan Pembuatan E-lkpd Dengan Penekanan Pada Tiga Level Representasi Kimia Menggunakan Flip Book Maker Bagi Guru Kimia Di Sma Negeri Kabupaten Padang Pariaman. Program Kemitraan Masyarakat (pkm), Leader: Minda Azhar, Implementation Year: 2019

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Bimbingan Menulis Proposal Dan Melaksanakan Penelitian Tindakan Kelas (ptk) Serta Membuat Laporan Ptk Dalam Bentuk Artikel Bagi Guru-guru Kimia Sma Kota Bukittinggi. Program Kemitraan Masyarakat (pkm), Leader: Alizar, Implementation Year: 2019

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Penerapan Model Pembelajaran Flipped Classroom Berbasis Guided Inquiry (fgil) Pada Pembelajaran Kimia Sma Di Kota Bukittinggia Sebagai Model Untuk Pembelajaran Digital Di Era Revolusi Industri 4.0. Program Pengembangan Produk Unggulan Pt (p3upt), Leader: Mawardi, Implementation Year: 2023

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Penanggulangan Bahan Kimia Tidak Terpakai Dan Kadaluarsa Di Laboratorium Sma Negeri 1 Vii Koto Sungai Sarik Padang Pariaman. Program Kemitraan Masyarakat (pkm), Leader: Alizar, Implementation Year: 2023

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### IPR's of the Last 5 Years

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### Book of the Last 5 Years

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