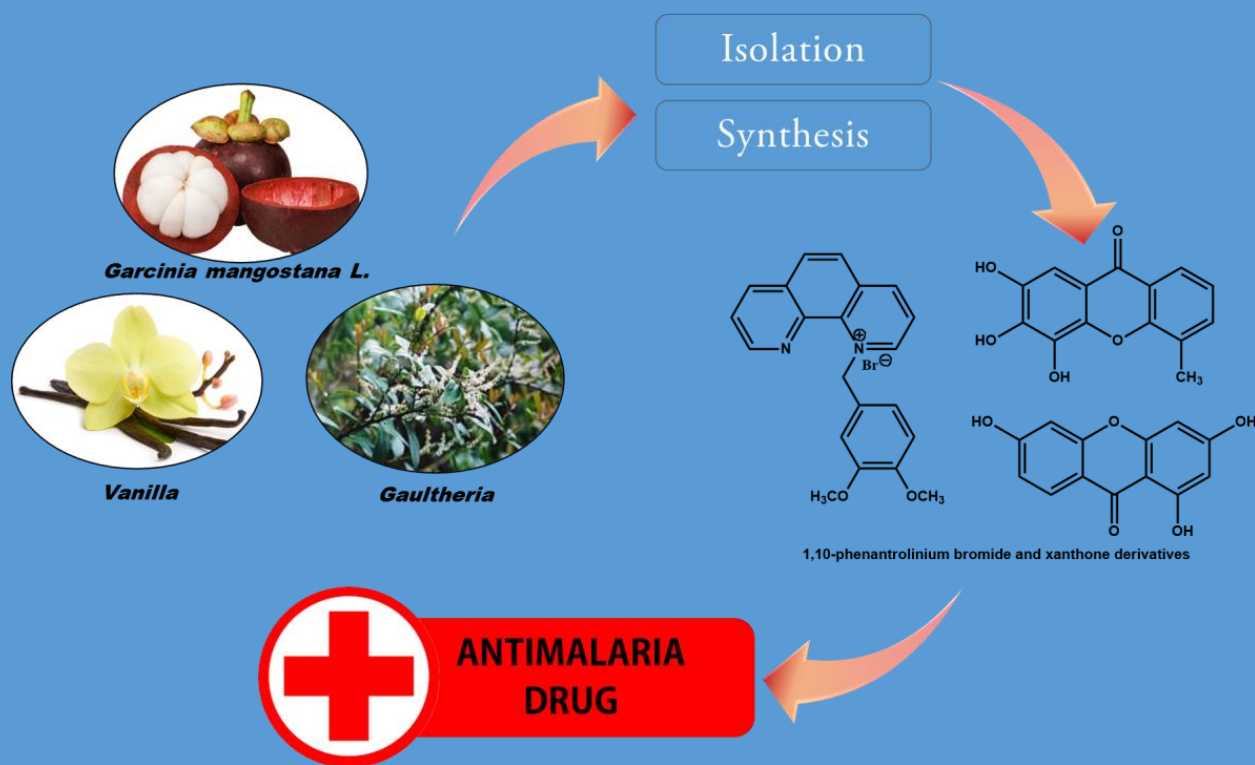


STAFF HANDBOOK (Curriculum Vitae)



Master of Chemistry Study Program
Faculty of Mathematics and Natural Sciences
Islamic University of Indonesia



Magister Kimia UII



magisterkimia_uui



magister.kimia@uii.ac.id

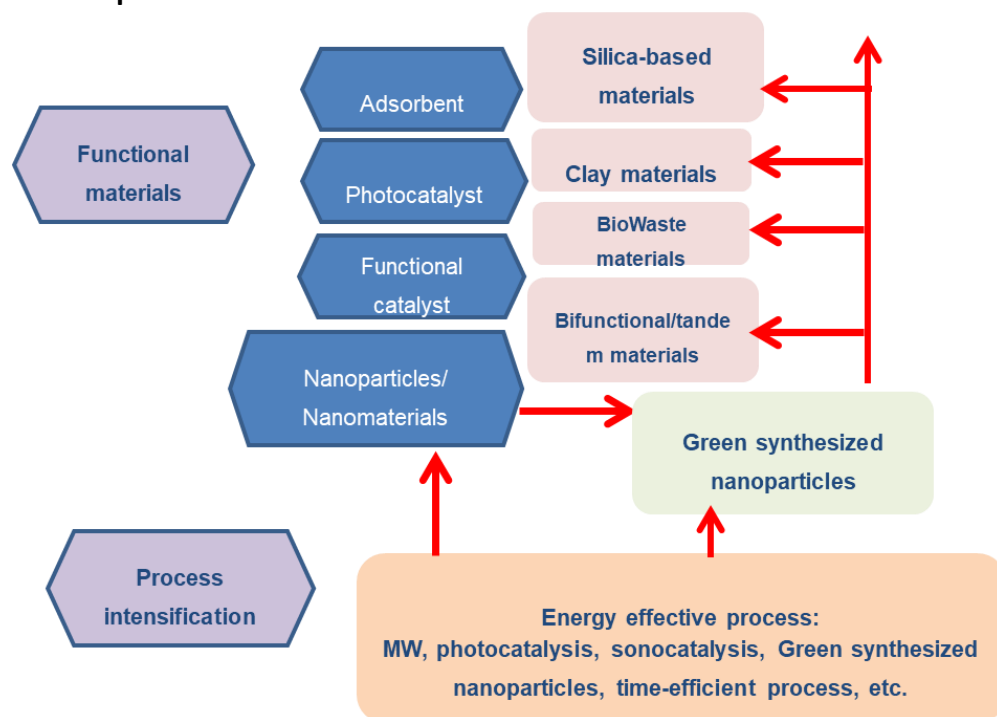


Name : Prof. Dr. Is Fatimah, M.Si
Date of Birth : March 29, 1975
E-mail : isfatimah@uii.ac.id
Educational Background : B.Sc. in Chemistry, Gadjah Mada University - 1998
 M.Sc. in Chemistry, Gadjah Mada University-2001
 Dr. in Chemistry, Gadjah Mada University-2010

Expertise:

Material chemistry, Green Chemistry, catalysis, adsorption

Research roadmap:



Publications:

No	year	Title of paper	Volume/No.	Journal
1.	2020.	One-pot biosynthesis of SnO ₂ quantum dots mediated by Clitoria ternatea flower extract for photocatalytic degradation of rhodamine B	8(4), 103879	Journal of Environmental Chemical Engineering
2.	2020	ZnO-Porous clay heterostructure from saponite as green catalyst for citronella cyclization, ,	15(1), pp. 137-145	Bulletin of Chemical Reaction Engineering & Catalysis
3.	2020	Physicochemical and photocatalytic activity of hematite/biochar nanocomposite prepared from Salacca skin waste	June 2020	Sustainable Chemistry and Pharmacy
4.	2020	Hydrothermal synthesized zinc oxide/kaolinite for photo-decolorization of methyl violet	June 2020	Desalination and Water Treatment
5.	2020	Physicochemical characteristics and photocatalytic performance of Tin oxide/montmorillonite nanocomposites at various Sn/montmorillonite molar to mass ratios	August 2020	Applied Clay Science 193.15671
6.	2020	Sonocatalytic degradation of rhodamine B using tin oxide/ montmorillonite	August 2020	Journal of Water Process Engineering
7.	2020	Green synthesis of hematite/TUD-1 nanocomposite as efficient photocatalyst for bromophenol blue and methyl violet degradation	June 2020	Arabian Journal of Chemical Engineering

8.	2020	Physicochemical and photocatalytic activity of hematite/biochar nanocomposite prepared from Salacca skin waste	May 2020	Sustainable Chemistry and Pharmacy 16,100261
9.	2019	Green conversion of citral and citronellal using tris(bipyridine)ruthenium(II)-supported saponite catalyst under microwave irradiation,	Volume 11, Pages 61-70.	Sustainable Chemistry and Pharmacy
10.	2019	Physicochemical characteristics and photocatalytic performance of TiO ₂ /SiO ₂ catalyst synthesized using biogenic silica from bamboo leaves	June 2019	Heliyon
11.	2019	Use of ZrO ₂ supported on bamboo leaf ash as a heterogeneous catalyst in microwave-assisted biodiesel conversion,	Volume 12, 100129	Sustainable Chemistry and Pharmacy
12.	2019	Synthesis, Characterization And Application Of Gelatin-Chitosan Blend Films For fruit preservation,	Volume 28 – No. 1/2019 pages 30-43	Fresenius Environmental Bulletin
13.	2019	Hydrolyzed Collagen from Tanned Leather Solid Waste as a Superabsorbent Coating in Slowurai Fertilizers: A Literature Review,	28(1): 82-93	Journal of Agricultural Industrial Technology
14.	2019	Characteristics and antibacterial activity of green synthesized silver nanoparticles using red spinach (Amaranthus Tricolor L.) leaf extract.	12:1, 25-30,	Green Chemistry Letters and Reviews
15.	2018	Low Cost CaTiO ₃ Perovskite Synthesized from Scallop (Anadara	299	IOP Conference Proceeding

		granosa) Shell as Antibacterial Ceramic Material		
16.	2018	Biosynthesis and characterization of ZnO nanoparticles using rice bran extract as low-cost templating agent	13(2), pp. 409-420	Journal of Engineering Science and Technology
17.	2018	Effect of KF Modification to Kaolinite Catalytic Activity in Microwave-Assisted Biodiesel Conversion	61(1)	Egyptian Journal of Chemistry
18.	2018	Chitosan-smectite composite on the urea adsorption-desorption study for slow release fertilizer application	Article in press	World Journal of Engineering
19.	2018	Immobilized γ -Fe ₂ O ₃ Nanoparticles Into SiO ₂ Airlgel Synthesized From Rice Husk Ash For Photo-Fenton Like Degradation Of Rhodamine B	11(2)	Rasayan Journal of Chemistry
20.	2018	Physicochemical Character and Photocatalytic Study of Silver Nanoparticles-Decorated Natural Halloysite	34(2)	Oriental Journal of Chemistry
21.	2018	Study on The Intercalation of Butyl Pyridinium in Smectite Clay and Application for Chromate Adsorption	13(2)	Journal of Engineering and Applied Sciences
22.	2018	Preparation, Characterization, and Modeling Activity of Potassium Flouride Modified Hydrotalcite for Microwave Assisted Biodiesel Conversion	6:63-70	Sustainable Chemistry and Pharmacy
23.	2018	Chitosan-smectite composite on the urea adsorption-desorption study for slow-release fertilizer application	15(2):292-297	World Journal of Engineering
24.	2018	TiO ₂ Supported on Brick Waste as Low Cost Photocatalyst for Dye Photodegradation	63: 733-738	Chemical Engineering Transaction

25.	2018	EDAPTMS-Functionalized Silica Derived from Rice Husk Ash and The Kinetics Study of Cu(II), Cr(III) And Pb(II) Adsorption	vol. 13, no. 2, pp. 331-340, Jun. 2018	Bulletin of Chemical Reaction engineering & Catalysis
26.	2018	Physicochemical characteristics and photocatalytic activity of silver nanoparticles-decorated on natural halloysite (an aluminosilicate clay	2018;34(2).	Oriental Journal of Chemistry
27.	2018	Silver nanoparticles synthesized using Lantana Camara flower extract by Reflux, microwave and ultrasound methods,	2018, 13(1), 95-102	
28.	2018	Biosynthesis and characterization of ZnO nanoparticles using rice bran extract as low-cost	Vol. 13, No. 2 (2018) 409-420	Journal of Engineering Science and Technology
29.	2018	-Fe ₂ O ₃ Nanoparticles immobilized in SiO ₂ aerogel synthesized from rice husk ash for photofenton like degradation of rhodamine B,	Vol. 11, No. 2 544 - 553	Rasayan J Chem,
30.	2018	Preparation, characterization and physicochemical study of 3-amino propyl trimethoxy silane-modified kaolinite for Pb(II) adsorption	Volume 30, Issue 2, Pages 250-257	Journal of King Saud University - Science
31.	2018	ZrO ₂ /bamboo leaves ash (BLA) Catalyst in Biodiesel Conversion of Rice Bran Oil	349 (2018) 012027	IOP Conference Series: Materials Science and Engineering, Volume 349, conference IOP Conf. Series: Materials Science and Engineering

32.	2018	Photocatalyst of Perovskite CaTiO ₃ Nanopowder Synthesized from CaO derived from Snail Shell in Comparison with the Use of CaO and CaCO ₃	349 (2018) 012026	IOP Conf. Series: Materials Science and Engineering
33.	2018	Preparation, characterization, and modeling activity of potassium fluoride modified hydrotalcite for microwave assisted biodiesel conversion	Volume 8,, Pages 63-70	Sustainable Chemistry and Pharmacy
34.	2018	Enhanced adsorption capacity of peanut shell toward rhodamine b via sodium dodecyl sulfate modification,	Vol. 11, 3, 1166 - 1176	Rasayan Journal of Chemistry
35.	2018	Hydroxyapatite prepared from snail (<i>Pila ampulacea</i>) and scallop (<i>Anadara granosa</i>) shells as low cost-renewable catalyst in biodiesel conversion,	2026, 020072 (2018)	AIP Conference Proceedings
36.	2018	Enhanced photocatalytic activity of WO ₃ nanoparticles loaded with carbon,	2026, 0200073 (2018)	AIP Conference Proceedings
37.	2018	Advance oxidation treatment of dye waste using ZnO/activated carbon under UV illumination	2026, 20004	AIP Conference Proceedings 2026, 20004
38.	2018	Microwave-synthesized hydroxyapatite from paddy field snail (<i>Pila ampullacea</i>) shell for adsorption of bichromate ion	Volume 28, Issue 6, Pages 462-471	Sustainable Environment Research
39.	2017	Preparation, Characterization and Catalytic Activity of Sn/TiO ₂ -Laponite	29(5) / pp 1108-1112	Asian Journal of Chemistry
40.	2017	Preparation of KF-Modified Kaolinite As Green and Reusable Catalyst for Microwave Assisted Biodiesel Conversion	172(1): Article number 012026	IOP Conf. Series: Materials Science and Engineering

41.	2017	Preparation of TiO ₂ -SiO ₂ via sol-gel method: Effect of Silica precursor on Catalytic and Photocatalytic properties	172(1): Article number 012025	IOP Conf. Series: Materials Science and Engineering
42.	2017	Preparation of TiO ₂ /MCM-41 photocatalyst using rice husk ash as silica source	1823 (1): 020124-1 - 020124-7	AIP Conference Proceeding
43.	2017	Preparation of sodium dodecyl sulphate-functionalized activated carbon from Gnetum gnemon shell for dye adsorption	1823 (1): 020125-1 - 020125-6	AIP Conference Proceeding
44.	2017	Control of wastewater using multivariate control chart	1823 (1): 020126-1 - 020126-11	AIP Conference Proceeding
45.	2017	Effect of nitric acid treatment on activated carbon derived from oil palm shell	1823 (1): 020129-1 - 020129-6	AIP Conference Proceeding
46.	2017	Biosynthesis of Silver Nanoparticles using Putri Malu (<i>Mimosa pudica</i>) Leaves Extract and Microwave Irradiation Method	11(2):288-298	Molecular Journal
47.	2017	N-[3-(Trimethoxysilyl)propyl]ethylenediamine Functionalized Saponite as Adsorbent of Nickel from Aqueous Solution	21(2), 2017	Engineering Journal, 2017
48.	2017	Preparation, characterization and photocatalytic study of Sn/TiO ₂ -Laponite	29(5), pp. 1108-1112	Asian Journal of Chemistry
49.	2017	Methenamine-Smectite Clay as Slow Release Fertilizer: Physicochemical and Kinetics Study	56, pp. 1639-1644	Chemical Engineering Transaction

50.	2017	Study on ZnO catalytic activity in salicylic acid degradation by sonophotocatalysis	56, pp. 1651-1656	Chemical Engineering Transaction
51.	2017	Chitosan-modified smectite clay and study on adsorption-desorption of urea	56, pp. 1645-1650	Chemical Engineering Transaction
52.	2017	KF-Modified Natural Halloysite as Green Catalyst in Microwave Assisted Biodiesel Conversion	105 (2017) 1796 – 1805	Procedia Energy
53.	2017	Low cost heterogenous catalyst from (Achatina Fulica) snail shell and its application for biodiesel conversion via microwave irradiation	909(1),01208 2	Journal of Physics: Conference Series
54.	2017	Preparation, characterization and physicochemical study of 3-amino propyl trimethoxy silane-modified kaolinite for Pb(II) adsorption	Article in press	King Saud University Journal of Science
55.	2016	Novel sulphated zirconia pillared clay nanoparticles as catalyst in microwave assisted conversion of citronellal	31(4): 222-228	Material Technology
56.	2016	Preparation of TiO ₂ -ZnO and its activity test in sonophotocatalytic degradation of phenol	107 (2016) 012003	IOP Conf. Series: Materials Science and Engineering
57.	2016	Green synthesis of ZnO nanoparticles via complex formation by using Curcuma longa extract	1710, 030027 (2016)	AIP Conf. Proc.
58.	2016	Preparation Of Zeolite Supported TiO ₂ , ZnO And ZrO ₂ And The Study On Their Catalytic Activity In NO _x Reduction And 1-Pentanol Dehydration	1717, 030005 (2016)	AIP Conf. Proc
59.	2016	Effect Of Calcination Temperature On The Synthesis Of ZrO ₂ -Pillared Saponite	16(1)	Indonesian Journal of Chemistry

		To Catalytic Activity In Menthol Esterification		
60.	2016	Effect of Pt on Catalytic Activity of Al- and Zr-Pillared Smectite	28(11): 2365-2370	Asian Journal of Chemistry
61.	2016	Plant Extract Mediated of ZnO Nanoparticles by Using Ethanol Extract of Mimosa Pudica Leaves and Coffee Powder	148(43–48)	Procedia Engineering
62.	2016	Modeling of Photocatalytic Activity of ZnO/AC by Using Linear Probability Model, Logit and Complementary Log Transformation	148:1112-1120	Procedia Engineering
63.	2016	Physicochemical and Photocatalytic Properties of Fe-Pillared Bentonite at Various Fe Content	11(3): 398-405	Bulletin of Chemical Reaction Engineering and Catalysis
64.	2016	Effect of Zn Content on the Physicochemical Characteristics and Photoactivity of ZnO Supported Activated Carbon	2016, Vol. 32, No. (5):Pg. 2757-2768	Oriental Journal of Chemistry
65.	2016	Green synthesis of silver nanoparticles using extract of Parkia speciosa Hassk pods assisted by microwave irradiation	7(6): 91-96	Journal of Advanced Research
66.	2015	Microwave assisted preparation of TiO ₂ /Al-pillared saponite for photocatalytic phenol photo-oxidation in aqueous solution	8(2), pp. 228-232	Arabian Journal of Chemistry
67.	2015	Environmentally Friendly Catalyst of Zirconium Pillared Saponite for Solvent Free Esterification of Menthol	1101 (2015)	Advanced Materials Research
68.	2015	Preparation, Characterization And Catalytic Activity Of Sulfated Zirconia By Varied Sol-Gel Method	1123: 96-99	Advanced Materials Research

69.	2015	Microwave assisted preparation of TiO ₂ /Al-pillared saponite for photocatalytic phenol photo-oxidation in aqueous solution	8, 228–232	Arabian Journal of Chemistry
70.	2015	Fe(III)/TiO ₂ -Montmorillonite Photocatalyst in Photo-Fenton-Like Degradation of Methylene Blue	2015	International Journal of Chemical Engineering
71.	2015	Preparation and characterization of Ni/Zr-saponite as Catalyst in catalytic hydrogen transfer reaction of Isopulegol	2015 827 (2015) pp 311-316	Materials Science Forum
72.	2015	Environmentally Friendly Catalyst of Zirconium Pillared Saponite for Solvent Free Esterification of Menthol	Vol. 1101 (2015) pp 272-275	Advanced Materials Research
73.	2015	Pt Dispersed On Sulfated-Zirconium Pillared Saponite As Catalyst In Citronellal Conversion	2: 20-25	ProscienceDOI:10.14644/amam.2015.004
74.	2015	Ni Dispersed on Sulfated Zirconia Pillared Montmorillonite as Bifunctional Catalyst in Eco-Friendly Citronellal Conversion	19(5), 43-53	Engineering Journal http://engj.org/index.php/ej/article/viewFile/778/419
75.	2015	Ceramic Membrane Based on TiO ₂ -Modified Kaolinite as Low Cost Material for Water Filtration	118(C): 207-211	Applied Clay Science
76.	2015	The Improvement of montmorillonite activity In 2-butanol dehydration by metal oxide pillarization	10(5): 74-82	Journal of Engineering Science and Technology http://jestec.taylors.edu.my/Special%20Issue%20

77.	2014	Preparation of bifunctional ceramic membrane based on TiO ₂ /Kaolinite for Water Disinfection	5(6)	Journal of Materials and Environmental Science
78.	2014	Preparation of ZrO ₂ /Al ₂ O ₃ -montmorillonite composite as catalyst for phenol hydroxylation	2014	Journal of Advanced Research
79.	2014	Effect Of Sulfation On Zirconia Pillared - Montmorillonite To The Catalytic Activity In Microwave Assisted Citronellal Conversion	2014	International Journal of Chemical Engineering
80.	2014	ZnO-SiO ₂ /laponite photocatalyst: Kinetic study on photocatalytic decolorization of methylene blue	896	Advanced Materials Research
81.	2014	Effect of Calcination Temperature in The Preparation of ZnO-SiO ₂ /Laponite on Physical Character and Photocatalytic Activity	26(15)	Asian Journal of Chemistry
82.	2013	Preparation of silver immobilized TiO ₂ -hectorite for phenol removal and eschericia coli disinfection	7(3)	Bulletin of Chemical Reaction Engineering and Catalysis
83.	2013	Preparation of cetyltrimethylammonium intercalated Indonesian montmorillonite for adsorption of toluene	74(2013)	Applied Clay Science
84.	2013	Evaluation of photodegradation efficiency on semiconductor immobilized clay photocatalyst by using probit model approximation	4(2)	International Journal of Chemical and Analytical Science
85.	2013	Organoclay of Cetyl trimethyl ammonium-montmorillonite: Preparation and Study in Adsorption of Benzene-Toluene-2-Chlorophenol	7(2013)	World Academy of Science, Engineering and Technology Journal

86.	2012	Photocatalytic antibacterial activity of ZnO/hectorite and ZnO/montmorillonite	10(3)	International Journal of Chemical Sciences
87.	2012	Reaction efficiency of crossed-aldol condensation between acetone and benzaldehyde over ZrO ₂ and ZrO ₂ -Montmorillonite Catalyst	8(5)	Journal of Applied Sciences Research
88.	2012	Composite of TiO ₂ -montmorillonite from Indonesia and its photocatalytic properties in methylene blue and e.coli reduction	3(5)	Journal of Materials and Environmental Science
89.	2011	ZnO/montmorillonite for photocatalytic and photochemical degradation of methylene blue	53(4)	Applied Clay Science
90.	2011	Preparation of ZnO/CTMA/Hectorite as catalyst in Alizarin Red S Photo-oxidation	23(2011)	Asian Journal of Chemistry
91.	2010	Preparation of ZrO ₂ /Al ₂ O ₃ -pillared saponite and its spectroscopic investigation on NO _x adsorption	21(1)	Journal of Physical Science
92.	2010	Preparation of aluminum pillared clay from Indonesian montmorillonite and its catalytic activity in bio-oil cracking	22(5)	Asian Journal of Chemistry
93.	2010	Composites of TiO ₂ -aluminum pillared montmorillonite: Synthesis, characterization and photocatalytic degradation of methylene blue	50(4)	Applied Clay Science
94.	2010	Photocatalytic generation of sulphate and hydroxyl radicals using zinc oxide under low-power UV to oxidise phenolic contaminants in wastewater	157(1-4)	Catalysis Today

95.	2010	Adsorption of anionic dyes in aqueous solution using chemically modified barley straw	62(5)	Water Science & Technology
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Name : Prof. Riyanto, S.Pd., M.Si., Ph.D.

Date of Birth : Ngawi, 4 Mei 1971

E-mail : riyanto@uii.ac.id

Educational Background : B.Sc. in Chemistry, Jambi University
 M.Sc. in Chemistry, Gadjah Mada University
 Dr. in Chemistry, National University of Malaysia

Expertise:

1. Preparation, characterization and application of glucose, uric acid and urea medical test using composite electrode (non enzymatic sensor) fourth generation.
2. Preparation, Characterization and Application of Carbon-Modified Electrode for Electrochemical Degradation of Waste Water Batik, Textile and Laundry
3. Preparation, Characterization and Application of Carbon-Modified Electrode for Electrochemical Disinfection of Drinking Water

Publications:

No	year	Title of paper	Volume/No.	Journal
1.	2019.	Boron doped graphene quantum structure and MoS ₂ nanohybrid as anode materials for highly reversible lithium storage	7,116	Frontiers in Chemistry
2.	2019	Preparation and application of nickel plating on copper electrode (NPCE) for	14 (3), 2290-2304	INTERNATIONAL JOURNAL OF

		uric acid analysis in human urine using cyclic voltammetry		ELECTROCHEMICAL SCIENCE
3.	2018	Treatment of wastewater batik by electrochemical coagulation using aluminium (Al) electrodes	299 (1), 012081	IOP Conference Series: Materials Science and Engineering
4.	2018	Preparation of Carbon-Chitosan-Polyvinyl Chloride (CC-PVC) Material and its Application to Electrochemical Degradation of Methylene Blue in Sodium Chloride Solution	288 (1), 012127	IOP Conference Series: Materials Science and Engineering
5.	2018	Conversion of Carbon Dioxide into Ethanol by Electrochemical Synthesis Method Using Cu-Zn Electrode	288 (1), 012136	IOP Conference Series: Materials Science and Engineering
6.	2018	Determination of glucose in human urine by cyclic voltammetry method using gold electrode	299 (1), 012001	IOP Conference Series: Materials Science and Engineering
7.	2018	Electrochemical Synthesis of Ethanol from Carbon Dioxide Using Copper and Carbon-Polyvinyl Chloride (C-PVC) Electrode	288 (1), 012128	IOP Conference Series: Materials Science and Engineering
8.	2017	Validation method for determination of cholesterol in human urine with electrochemical sensors using gold electrodes	1911 (1), 020032	AIP Conference Proceedings
9.	2017	Simple preparation of rice husk activated carbon (RHAC) and applications for laundry and methylene blue wastewater treatment	1911 (1), 020033	AIP Conference Proceedings
10.	2017	Treatment of ammonia in liquid hospital waste using activated carbon	1911 (1), 020030	AIP Conference Proceedings
11.	2017	The Effects of Voltage and Concentration of Sodium Bicarbonate	909 (1), 012076	Journal of Physics: Conference Series

		on Electrochemical Synthesis of Ethanol from Carbon Dioxide Using Brass as Cathode		
12.	2017	Utilization of Pb and PbO ₂ from lead storage battery waste for batik wastewater treatment using electrochemical method	909 (1), 012074	Journal of Physics: Conference Series
13.	2017	Preparation of carbon-polyvinyl chloride (C-PVC) and its application for electrodes to electrochemical degradation of batik wastewater	909 (1), 012075	Journal of Physics: Conference Series
14.	2017	Conversion of Carbon Dioxide to Ethanol by Electrochemical Synthesis Method Using Brass as A Cathode	17 (2), 86-97	EKSAKTA: Journal of Sciences and Data Analysis
15.	2017	Application of Electro-Oxidation Method for Treatment of Dye Textile Wastewater Using Stainless Steel Electrode: Study of Electrolyte Concentration Effect to Color Removal	17 (2), 147-153	EKSAKTA: Journal of Sciences and Data Analysis
16.	2017	Alternative of Visual Based Learning (VBL) Method Based on Short Duration Video for The Instrumental Chemistry Subject in Chemistry Department	1 (1), 46-53	International Journal of Chemistry Education Research



Name : Prof. Dr.rer.nat. Agus Taftazani

Date of Birth : Jogjakarta, 22 Juli 1952

E-mail : agus.taftazani@uui.ac.id

Educational Background : B.Sc., Gadjah Mada University
Dr. in Analytical Chemistry, Gesamt Hochschule Kassel,
Germany

Expertise:

1. Environmental Specimen Bank (ESB): Identification of Heavy Metals and radionuclides in Environmental samples (land, rivers, beaches) using Nuclear Analysis Techniques.
2. Development of Nuclear Analysis Techniques (TAN) for the identification of environmental and industrial pollutant samples
3. Assessment of Air Pollutants due to the impact of coal combustion (pollutants: Heavy metals, natural radionuclides in coal, fly ash, bottom ash, filters (TSP, PM10 and PM2.5).
4. Quality Assurance and Quality Control of Nuclear Analytical Techniques

Publications:

No	year	Title of paper	Volume/No.	Journal
1.	2020.	Evaluation of Radioactivity in Surabaya Coastal Estuary Ecosystem with Spectrometry α , β , γ	17 (3), 19-23	Asian Journal of Water, Environment and Pollution

2.	2018	Efek Pelaparan dan Akumulasi Polifosfat terhadap Biopresipitasi Uranium pada <i>Bacillus cereus</i> A66	6 (2), 68-77	Biotropika: Journal of Tropical Biology
3.	2018	Isolasi dan Identifikasi Molekular Bakteri Toleran Uranium yang Berpotensi dalam Biopresipitasi Uranium	21 (1), 45-53	GANENDRA Majalah IPTEK Nuklir
4.	2018	The effect of starvation and polyphosphate accumulation on uranium bioprecipitation in <i>Bacillus cereus</i> A66.	6 (2), 68-77	Biotropika
5.	2017	Comparison of NAA XRF and ICP-OES Methods on Analysis of Heavy Metals in Coals and Combustion Residues	17 (2), 228-237	Indonesian Journal of Chemistry
6.	2017	Comparison of the analysis result between two laboratories using different methods	20 (1), 23-30	Jurnal Iptek Nuklir Ganendra



Name : Drs. Allwar, M.Sc., Ph.D.

Date of Birth : Pekanbaru, 2 May 1962

E-mail : allwar@uii.ac.id

Educational Background : B.Sc. in Chemistry, Jambi University
 M.Sc. in Inorganic chemistry, Howard University
 Dr. in Enviromental Chemistry & Material Sciences, Universiti
 Sains Malaysia

Expertise:

Synthesis and characterization of Nano composite metal oxide and activated carbon from biomass waste were used as adsorbent for multipurpose of separation and purification methods. Since the adsorbents have excellent properties, they have been used for removal of heavy metals and organic/inorganic pollutant. In the future, the research will be focused on the synthesize and improvement of many types of nano composite from waste of raw materials and metal oxide Characterization and application of nano composite will be carried out by FTIR, EXD, SAA, SEM-EDX, SAA, UV-Vis, Thermogravimetry, etc.

Publications:

No	year	Title of paper	Volume/No.	Journal
1.	2021	Physical-chemical Characterization of Nano-Zinc Oxide/Activated Carbon Composite for Phenol Removal from Aqueous Solution	16 (1), 136-147	Bulletin of Chemical Reaction Engineering & Catalysis

2.	2021	Synthesis and Characterization of TiO ₂ Nanoparticles Doping on Cellulose as Adsorbent for Removal of Rhodamine B in Aqueous Solution	2 (1), 45-54	EKSAKTA: Journal of Sciences and Data Analysis
3.	2020	Preparation and characterizations of activated carbon from banana fruit bunch with chemical treatments using hydrothermal processes	2229 (1), 030028	AIP Conference Proceedings
4.	2020	Synthesis and characterization of ZnO/Al ₂ O ₃ /activated carbon composite from banana fruit bunch using hydrothermal method	2229 (1), 030027	AIP Conference Proceedings
5.	2020	Potential-Magnetic Composite of Fe ₃ O ₄ /Activated Carbon from Palm Oil Shell	897, 68-72	Applied Mechanics and Materials
6.	2019	Removal of Cu (II) ions from aqueous solution by activated carbon produced from banana fruit bunch (<i>Musa paradisiaca</i>)	172, 139-147	Desalination and Water Treatment
7.	2019	Synthesis and Characterization of TiO ₂ /Natural Fiber from Banana Fruit Bunch Waste for Removal of Rhodamine-B in Aqueous Solution	Preprints	Preprints
8.	2019	Removal of phenol and 2-chlorophenol by banana bunch activated carbon prepared by hydrothermally-assisted KOH activation.	12 (2), 598-607	Rasāyan Journal of Chemistry
9.	2018	Synthesis and characterization of composite of Al ₂ O ₃ /activated carbon from palm oil shell by hydrothermal method	2026 (1), 020094	AIP Conference Proceedings 2026

10.	2018	Synthesis and Characterization of Activated Carbon from Hydrothermally Banana Empty Fruit Bunch for Adsorption of Pb (II) and Cr (VI) in Aqueous Solution.	30 (7)	Asian Journal of Chemistry
11.	2018	Preparation and characterization of hydrothermal activated carbon from banana empty fruit bunch with ZnCl ₂ activation for removal of phenol in aqueous solution	11, 20-28	Asian J. Appl. Sci
12.	2018	Preparation and characteristics of highly microporous activated carbon derived from empty fruit bunch of palm oil using KOH activation	11 (1), 280-286	Rasāyan Journal of Chemistry



Name : Dr. Dwiwarso Rubiyanto, S.Si., M.Sc.

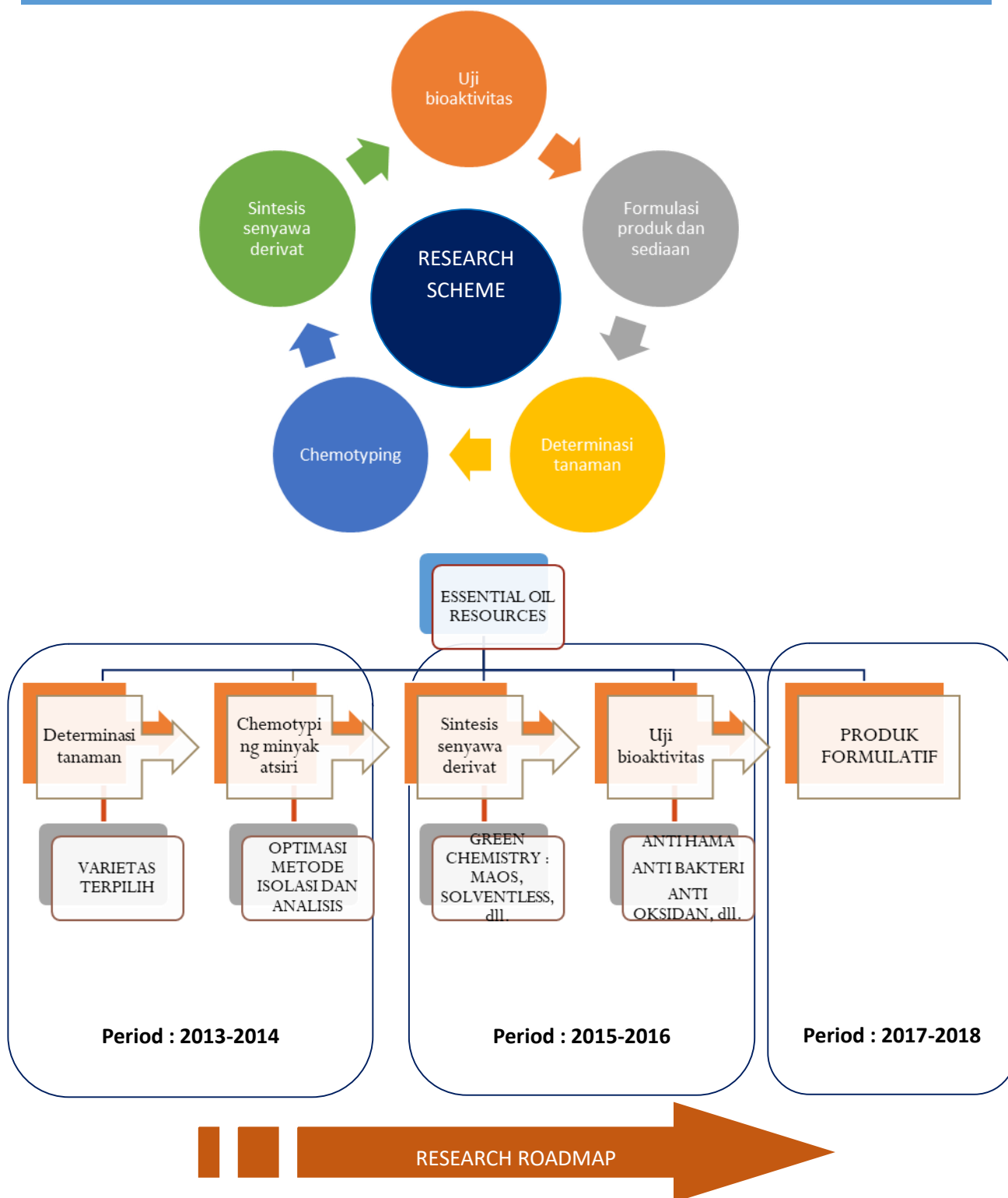
Date of Birth : May 15, 1974

E-mail : dwiarso.rubiyanto@uii.ac.id

Educational Background : B.Sc. in Chemistry, Gadjah Mada University
M.Sc. in Chemistry, Gadjah Mada University
Dr. in B.Sc. in Chemistry, Gadjah Mada University

Expertise:

1. Essential oils which includes the exploration of new sources and their uses, Research that focuses on the isolation,
2. Analysis and conversion of essential oil components into more valuable products,
3. Processing of essential oils into natural biopesticides, micro/nano encapsulation of essential oils for raw materials for the perfume industry, and refining crude essential oils into refining products



Publications:

No	year	Title of paper	Volume/No.	Journal
1.	2020.	Microwave-assisted synthesized porous clay heterostructure-Zn/Si from montmorillonite for citronellal conversion into isopulegol	7(10), 105006	Materials Research Express
2.	2020	Physicochemical characteristics and photocatalytic performance of Tin oxide/montmorillonite nanocomposites at various Sn/montmorillonite molar to mass ratios	193, 105671	Applied Clay Science
3.	2020	Comparative study of the effectiveness of Na ₂ CO ₃ and K ₂ CO ₃ as base in methylation reaction on eugenol using dimethylcarbonate	2229 (1), 030001	AIP Conference Proceedings
4.	2020	Application of e-learning at the chemistry of essential oils course supported with practical activities	2229(1), 020007	AIP Conference Proceedings
5.	2020	Implementation of student-centered learning (SCL) with retrosynthesis module-assisted on synthetic organic chemistry course	2229(1), 020006	AIP Conference Proceedings
6.	2020	ZnO-Porous Clay Heterostructure from Saponite as Green Catalyst for Citronellal Cyclization	15(1), 137-145	Bulletin of Chemical Reaction Engineering & Catalysis
7.	2019	Antimalarial Activity of Andrographis Paniculata Ness's N-hexane Extract and Its Major Compounds	17(1), 788-797	Open Chemistry
8.	2019	Use of ZrO ₂ supported on bamboo leaf ash as a heterogeneous catalyst in microwave-assisted biodiesel conversion	12, 100129	Sustainable Chemistry and Pharmacy

9.	2019	Green conversion of citral and citronellal using tris (bipyridine) ruthenium (II)-supported saponite catalyst under microwave irradiation	11, 61-70	Sustainable Chemistry and Pharmacy
10.	2019	Alginate-modified saponite and study for ureaslow released fertilizer application.	12(4), 1792-1802	Rasayan Journal of Chemistry
11.	2018	Problem based learning (PBL) method as a synchronization approach of chromatography course and chromatography laboratory work	2026(1), 020090	AIP Conference Proceedings
12.	2018	Preparation, characterization, and modeling activity of potassium fluoride modified hydrotalcite for microwave assisted biodiesel conversion	8, 63-70	Sustainable Chemistry and Pharmacy
13.	2018	Effect of KF Modification to Kaolinite Catalytic Activity in Microwave-Assisted Biodiesel Conversion	61(1), 213-223	Egyptian Journal of Chemistry
14.	2017	Modeling Alkyl p-Methoxy Cinnamate (APMC) as UV absorber based on electronic transition using semiempirical quantum mechanics ZINDO/s calculation	909(1), 012081	Journal of Physics: Conference Series



Name : Rudy Syah Putra, M.Sc., Ph.D.

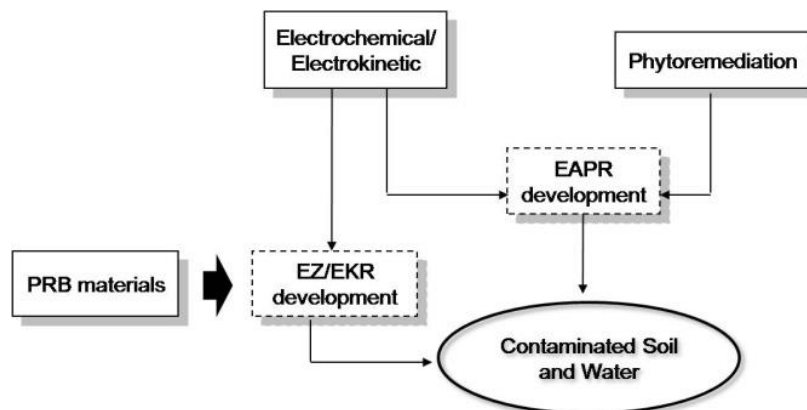
Date of Birth : August 3, 1972

E-mail : rudy.syahputra@uii.ac.id

Educational Background : B.Sc. in Chemistry, Gadjah Mada University
 M.Sc. in Chemistry, Gadjah Mada University
 Dr. in B.Sc. in Chemistry, Hokkaido University
 Post Doctoral Hokkaido University

Expertise :

- Environmental Chemistry, Environmental Remediation Chemistry and Chemical Instrumentation Analysis



Publications:

No	year	Title of paper	Volume/No.	Journal
1.	2021	Cox Model Survival Analysis to Evaluate Treatment of Electro-Capacitive Cancer Therapy (ECCT) For Cancer Patients	1863(1), 012036	Journal of Physics: Conference Series
2.	2021	The effect of particle size and dosage on the performance of Papaya seeds (<i>Carica papaya</i>) as biocoagulant on wastewater treatment of batik industry	1087(1), 012045	IOP Conference Series: Materials Science and Engineering
3.	2021	Enhancement of electroflotation using <i>Musa acuminata</i> peel as biocoagulant on the wastewater treatment of chemical laboratory	1087(1), 012048	IOP Conference Series: Materials Science and Engineering
4.	2021	The combination of electroflotation-biocoagulation process using <i>Aloe vera</i> for river water treatment	1087(1), 012047	IOP Conference Series: Materials Science and Engineering
5.	2021	The simultaneous of electroflotation and biocoagulation on the treatment of peat water using mung bean (<i>Vigna radiata</i>) as natural coagulant	1087(1), 012046	IOP Conference Series: Materials Science and Engineering
6.	2021	Enhancement of Electroflotation Using Papaya Seeds (<i>Carica papaya</i>) as Biocoagulant for Laboratory Wastewater Treatment	884, 3-9	Key Engineering Materials
7.	2021	Enhancement of EAPR Treatment Using Double Aeration System and Uptake by Pakcoy (<i>Brassica rapa</i> subsp. <i>chinensis</i>)	1162, 74-80	Advanced Materials Research
8.	2020	Electroflotation-biocoagulant process using chickpea (<i>Cicer arietinum</i>) for laboratory wastewater treatment	2242(1), 040049	AIP Conference Proceedings

9.	2020	Double aeration system on the enhancement of EAPR for removal of lead (Pb) and uptake by Pakcoy (<i>Brassica rapa</i> subsp. <i>Chinensis</i>): An evaluation of using ...	2242(1), 040017	AIP Conference Proceedings
10.	2020	Turbidity removal of synthetic wastewater using biocoagulants based on protein and tannin	2242(1), 040028	AIP Conference Proceedings
11.	2020	Performance Comparison between Biocoagulant Based on Protein and Tannin Compared with Chemical Coagulant	840, 29-34	Key Engineering Materials
12.	2019	Enhancement of EAPR System Using Aeration Process on the Removal of Heavy Metal (Cu and Fe) in the Wastewater and Up-Take by Vetiver Grass (<i>Vetiveira zizanioides</i> L)	948, 3-8	Materials Science Forum
13.	2019	Production of hydrogen gas from biomass oil palm empty fruit bunch using electrolysis method	268, 06017	MATEC Web of Conferences
14.	2018	Synthesis of Fatty Acid Methyl Ester from Soybean Oil Using Electrolysis Enhanced by Treated Kaolinite as Catalyst	43, 01024	E3S Web of Conferences
15.	2018	Al-alginate as acid catalyst for FAME synthesis using electrolysis process	43, 01002	E3S Web of Conferences
16.	2017	ERASI Method (Combined Process Electro-Assisted Phytoremediation and Aeration) with Fragrant Roots (<i>Vetiveira zizanioides</i> L) for Fe and Cu Metal Wastewater Remediation	5(3), 112-119	Chimica et Natura Acta



Name : Dr. Noor Fitri, M.Si.
Date of Birth : 6 December, 1970
E-mail : noor.fitri@uii.ac.id
Educational Background : B.Sc. in Chemistry, Hasanuddin University
M.Sc. in Chemistry, Bandung Institute of Technology
Dr. in B.Sc. in Chemistry, Bandung Institute of Technology

Expertise :

- Fields of Analytical Chemistry, Chemical Separation, Environmental Chemistry and Chemical Speciation. Ongoing research focuses on chemical separation both to address environmental concerns, development of separation methods for essential oil extraction, as well as for elemental chemical speciation. Mastering the analytical techniques of AAS, UV-Vis, ICP-MS, GC-MS, LC-MS/MS, and Preparative Native Continuous Polyacrylamide Electrophoresis (CE).

Publications:

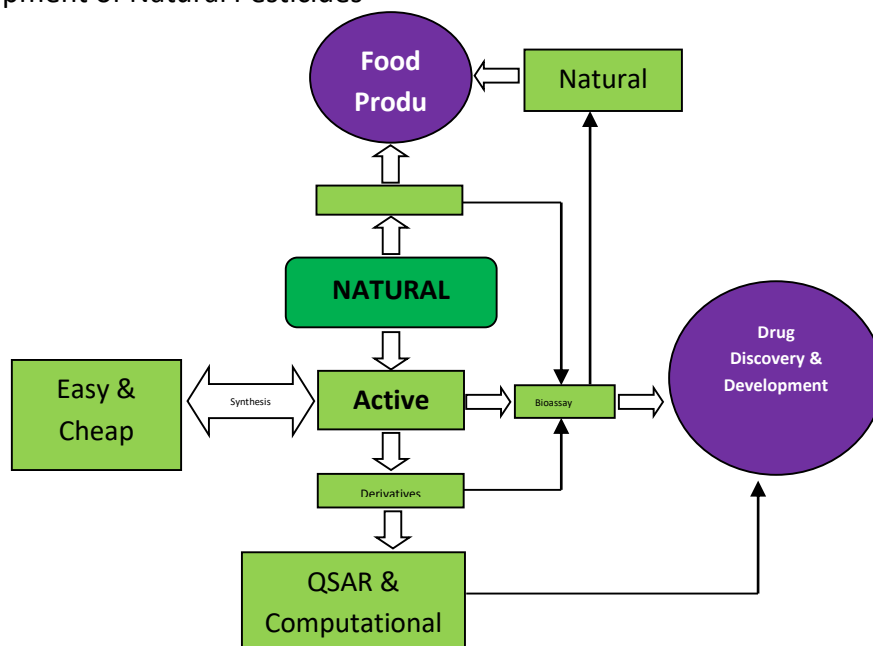
No	year	Title of paper	Volume/No.	Journal
1.	2020	Optimization of gas chromatography operational conditions for analysis of ginger oil from <i>Zingiber officinale</i> var. <i>Amarum</i>	2229 (1), 030041	AIP Conference Proceedings
2.	2020	Anti-Aging Serum Formulation of <i>Piper Nigrum</i> L Black Pepper Essential Oil and Antioxidant Activity Test Using the DPPH Method	5(1), 1-11	Asian Journal of Innovation and Entrepreneurship
3.	2019	Production of Shredded Catfish as an Alternative Business to Improve the Economy of Pelutan Village Community	4(3), 199-206	Asian Journal of Innovation and Entrepreneurship
4.	2019	Comparison between maceration and microwave extraction techniques of strawberry fruit (<i>fragaria</i> sp) and antioxidant activity test	523(1), 012024	IOP Conference Series: Materials Science and Engineering
5.	2018	Chemical Laboratory Basic Engineering ISBN : 9786024502690	ISBN : 9786024502690	ISBN : 9786024502690
6.	2017	Problem-based learning on quantitative analytical chemistry course	1911(1), 020028	AIP Conference Proceedings
7.	2017	A comparative study of water-steam distillation with water-bubble distillation techniques to increase the quality of patchouli essential oil	1823 (1), 020122	AIP Conference Proceedings
8.	2017	Formulation of antiacne serum based on lime peel essential oil and in vitro antibacterial activity test against <i>Propionibacterium acnes</i>	1823(1), 020123	AIP Conference Proceedings



Name : Dr. Tatang Shabur Julianto, S.Si., M.Si.
Date of Birth : Pamekasan, 17 Juli 1976
E-mail : tatang_shabur@uii.ac.id
Educational Background : B.Sc. in Chemistry, Diponegoro University
 M.Sc. in Chemistry, Gadjah Mada University
 Dr. in Synthesis of Organik Chemistry, Gadjah Mada University

Expertise:

1. Development of Natural Plant Drugs and Organic Synthesis
2. Food Modification and Diversification
3. Development of Natural Pesticides



Publications:

No	year	Title of paper	Volume/No.	Journal
1.	2020	Catalysts of banana stems and utilization in waste cooking oil transesterification reactions assisted by acetone as co-solvent	2229 (1), 030004	AIP Conference Proceedings
2.	2020	Identification and Heme Polymerization Inhibition Activity (HPIA) Assay of Ethanolic Extract and Fraction of Temu Mangga (<i>Curcuma mangga</i> Val.) Rhizome	20 (1), 64-72	EKSAKTA: Journal of Sciences and Data Analysis
3.	2019	Production of Bioethanol from Rice Straw Assisted by Cellulosic Enzyme Oyster Mushroom Stem Using Simultaneous Saccharification and Fermentation (SSF)	193-199	EKSAKTA: Journal of Sciences and Data Analysis
4.	2019	Antibacterial activity of fractions (chloroform, ethyl acetate and methanol) red betel leaf ethanol extract (<i>Piper crocatum</i>) against <i>Streptococcus pyogenes</i> bacteria	79, 40	International Journal of Infectious Diseases
5.	2018	Synthesis and heme polymerization inhibitory assay of a new arylamino alcohol derivative compound from methyl eugenol and aniline	2026 (1), 020104	AIP Conference Proceedings
6.	2018	Preliminary study on fractions' activities of red betel vine (<i>Piper crocatum</i> Ruiz & Pav) leaves ethanol extract toward <i>Mycobacterium tuberculosis</i>	1954 (1), 030004	AIP Conference Proceedings
7.	2017	The effect of acetone amount ratio as co-solvent to methanol in transesterification reaction of waste cooking oil	349 (1), 012063	IOP conference series: materials science and engineering

8.	2017	The implementation of case study with module-assisted to improve students' understanding on phytochemistry course	1911 (1), 020026	AIP Conference Proceedings
9.	2017	Solvent-Free Isomerization of 3-carene to 2-carene using Na/o-chlorotoluene Catalyst in Trans-isolimone Production	33 (6), 3107-3111	Oriental Journal of Chemistry
10.	2017	The effect of concentrations and volumes of methanol in reducing free fatty acid content of used cooking oil as biodiesel feedstock	1823 (1), 020130	AIP Conference Proceedings
11.	2017	A comparative study of water-steam distillation with water-bubble distillation techniques to increase the quality of patchouli essential oil	1823 (1), 020122	AIP Conference Proceedings