



3rd International Conference
on Chemistry and Material Science

Universitas Jember
Kampus Bumi Tegal Boto
Jl. Kalimantan No.37
Jember, 68121
e-mail: ic2ms@unej.ac.id
<http://ic2ms.fmipa.unej.ac.id/>

Event Rundown
3rd Internasional Conference on Chemistry and Material Science
3rd-IC2MS 2021
“Innovation of Material Science for Sustainable Industrial Chemistry”

Day 1 (Tuesday, 12nd October 2021)

Time (GMT+7)	Activity	Room	Chairperson
08.00 – 08.10	Registration	https://unej.id/ic2msday1 Meeting ID:91312837224 Passcode: password (Zoom Meeting Platforms)	Committee
08.10 – 08.15	Opening		MC
08.15 – 08.20	Welcoming Speech Dr. A.A.I. Ratnadewi Chief Executive 3 rd IC2MS		MC
08.20 – 08.25	Consortium Committee Speech Dr. Bambang Piluharto, M.Si. Host of 3 rd IC2MS		MC
08.25 – 08.30	Opening Speech Dr. Ir Iwan Taruna, M.Eng Rector of Universitas Jember		MC
08.30 – 09.30	Keynote Speaker 1 Prof. Yong-Chien Ling Tsing Hua University, ROC		Moderator Drs. Zulfikar, Ph.D.
09.30 – 10.30	Keynote Speaker 2 Prof. Byung-Dae Park Kyungpook National University, Republic of Korea		Moderator Drs. Zulfikar, Ph.D.
10.30 – 11.30	Keynote Speaker 3 Dr. Hasliza Bahruji Universiti Brunei Darussalam	Moderator Drs. Zulfikar, Ph.D.	
11.30 – 12.30	Break		Committee
12.30 – 15.00	<u>Parrallel Session 1</u> Invited Speaker: Ana Safitri, Ph.D. (Room 1) Department of Chemistry, Universitas Brawijaya Invited Speaker: Drs. Zulfikar, Ph.D (Room 2) Department of Chemistry, Universitas Jember	Room 1 https://unej.id/IC2MSParallelRoom1 Meeting ID: 304 902 2934 Room 2 https://unej.id/IC2MSParallelRoom2 Meeting ID: 996 7412 6157 Passcode: ic2ms2021	Moderator: Drs. Achmad Sjaifullah, Ph.D. Moderator: Drs. Sudarko, Ph.D.

	<p>Invited Speaker: Dr. Irma Puspita Kusumaningrum (Room 3) Department of Chemistry, Universitas Negeri Malang</p> <p>Invited Speaker: Nanang Masruchin, Ph.D. (Room 4) Research Center for Chemistry, Indonesian Institute of Science (LIPI), Indonesia</p>	<p>Room 3 https://unej.id/IC2MSParallelRoom3 Meeting ID: 634 099 3835</p> <p>Room 4 https://unej.id/IC2MSParallerRoom4 Meeting ID: 333 068 5510</p>	<p>Moderator: Suwardiyanto, Ph.D.</p> <p>Moderator: Agung B. Santoso, M.Si.</p>
15.00 – 15.30	Break		Committee
15.30 – 17.00	Parrallel Session 2	<p>Room 1 https://unej.id/IC2MSParallelRoom1 Meeting ID: 304 902 2934</p> <p>Room 2 https://unej.id/IC2MSParallelRoom2 Meeting ID: 996 7412 6157 Passcode: ic2ms2021</p> <p>Room 3 https://unej.id/IC2MSParallelRoom3 Meeting ID: 634 099 3835</p> <p>Room 4 https://unej.id/IC2MSParallerRoom4 Meeting ID: 333 068 5510</p>	<p>Moderator: Drs. Achmad Sjaifullah, Ph.D.</p> <p>Moderator: Drs. Sudarko, Ph.D.</p> <p>Moderator: Suwardiyanto, Ph.D.</p> <p>Moderator: Agung B. Santoso, M.Si.</p>



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Day 2, (Wednesday, 13rd October 2021)

Time (GMT+7)	Activity	Room	Chairperson
08.00 – 08.15		Registration	Committee
08.15 – 10.00	Parrallel Session 3	Room 1 https://unej.id/IC2MSParallelRoom1 Meeting ID: 304 902 2934 Room 2 https://unej.id/IC2MSParallelRoom2 Meeting ID: 6340993835 Room 3 https://unej.id/IC2MSParallelRoom3 Meeting ID: 3330685510 Room 4 https://unej.id/IC2MSParallerRoom4 Meeting ID: 91311613422 Room 5 https://unej.id/IC2MSParallerRoom5 Meeting ID: 92639046853 Passcode: ic2ms2021	Moderator: Agung B. Santoso, M.Si. Moderator: Dr. Bambang Piluharto, M.Si. Moderator: Yudi A. Sulistiyo, M.Si. Moderator: Ika Oktavianawati, M.Sc. Moderator: Drs. Sudarko, Ph.D.
10.00 – 10.30		Break (Coffee Break)	Committee
10.30 – 12.30	Parrallel Session 4	Room 1 https://unej.id/IC2MSParallelRoom1 Meeting ID: 3049022934 Room 2 https://unej.id/IC2MSParallelRoom2 Meeting ID: 6340993835	Moderator: Agung B. Santoso, M.Si. Moderator: Dr. Bambang Piluharto, M.Si.

		<p>Room 3 https://unej.id/IC2MSParallelRoom3 Meeting ID: 3330685510</p> <p>Room 4 https://unej.id/IC2MSParallerRoom4 Meeting ID: 94166744655</p> <p>Room 5 https://unej.id/IC2MSParallerRoom5 Meeting ID: 92639046853 Passcode: ic2ms2021</p>	<p>Moderator: Yudi A. Sulistiyo, M.Si.</p> <p>Moderator: Ika Oktavianawati, M.Sc.</p> <p>Moderator: Drs. Sudarko, Ph.D.</p>
12.30 – 13.30	Break (Lunch and Pray)		
13.30 – 14.30	<p>Keynote Speaker 4 Prof. David Lennon University of Glasgow, UK</p>	<p>https://unej.id/ic2msday2 (Zoom Meeting Platforms) Meeting ID:92820561439 Passcode: password</p>	<p>Moderator Suardiyanto, Ph.D.</p>
14.30 – 15.30	<p>Keynote Speaker 5 Prof. Russel Howe University of Aberdeen, UK</p>		<p>Moderator Suardiyanto, Ph.D.</p>
15.30 – 16.30	<p>Keynote Speaker 6 Prof. Manabu Abe Hiroshima University, Japan</p>		<p>Moderator Suardiyanto, Ph.D.</p>
16.30 – 17.00	Closing		Committee



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Parallel Session Day 1, October 12nd 2021

Room 1 (Natural Product Chemistry)			
Time	Author	ID Number	Title
12.30 - 13.00	Invited Speaker Anna Safitri, Ph.D.	-	Bioprospecting of Anti-diabetic Activity of Root Extracts of <i>Ruellia tuberosa</i> L
13.00 - 13.15	Yuka Fadana, Nur Ikhtiarini, Masruri Masruri and Moh. Farid Rahman	72	Phytochemical screening, LC-MS/MS, and antibacterial evaluation from the extract of <i>Pinus merkusii</i> Jung Et De Vriese
13.15 - 13.30	Iwan Dini, Nunuk H. Soekamto, Firdaus Firdaus, Unang Supratman and Jalifa Latip	75	Bisindole Alkaloid Caulerpin from the <i>Halimeda Cylindracea</i> Decaisne; Biosynthetic Significance and Cytotoxic Activity
13.30 - 13.45	Widia Edy Kuncoro, Masruri Masruri, Nur Ikhtiarini and Siti Mariyah Ulfa	76	Oxidation-hydroxylation of Pine Rosin Acid
13.45 - 14.00	Dodi Iskandar, Widodo Widodo, Warsito Warsito and Masruri Masruri	77	Review of reports on traditional medicinal plants in West Kalimantan in the last 10 years
14.00 - 14.15	Moh Farid Rahman, Siti Mariyah Ulfa, Faizal Muhammad Zubair and Masruri Masruri	81	Metabolomic Profiling of Ethyl Acetate Extracts of Sponges <i>Halichondriidae</i> sp from Kangean Islands and Their In-silico Activity as Coronavirus Drugs
14.15 - 14.30	Anak Agung Istri Ratnadewi, Yeni Kartikasari, Ari Satia Nugraha and Tri Agus Siswoyo	86	Antidiabetic and Antioxidant Activity of Jambon [<i>Syzygium microcymum</i> (Koord. & Valeton) Amshoff] Leaves
14.30 - 14.45	Anna Roosdiana, Anna Safitri, Dyah Ayu Oktavianie A.P and Intan Kirana	98	Effect of ethanolic root extract of <i>Ruellia tuberosa</i> L on diabetic rat type I based on serum glutamic pyruvic transaminase (SGPT) activity and liver hispathology
14.45 - 15.00	Fitri Gustika Nurchanifah, Dyah Utami Cahyaning Rahayu, Dita Arifa Nurani, Yuni K Krisnandi, Iman Abdullah, Bambang Heru Susanto and Agnesya Putri Gustianthy	30	The Effect of Various Stirring Speed in the Synthesis of Oleic Imidazoline as an Introduction to Pre-Scale Up Synthesis
15.00 - 15.30	Break		
15.30 - 15.45	Regina Ainunnisa Hakim, Dyah Utami Cahyaning Rahayu and Andhina Rizkya Satriani	31	Flavonoid Content Screening and Antioxidant Activity of Indonesian Cinnamon Extract (<i>Cinnamomum burmannii</i>)
15.45 - 16.00	Rini Retnosari, Nadia Erlina Mayangsari, Siti Marfu'Ah, Sutrisno Sutrisno and Ihsan Budi Rachman	38	A Green Synthesis of 9-(4-Bromophenyl)-3,4,5,6,7,9-Hexahydro-1H-Xanthene-1,8(2H)-Dione Using Lemon Juice Catalyst Assisted by Ultrasound and Its Antibacterial Activity

16.00 - 16.15	Zubaidah Ningsih and Lestari Maria	40	Comparison of Effectiveness and Efficiency of Fabrication Techniques and Carrier Oil in Curcumin Nanoemulsion Making Process
16.15 - 16.30	Sutrisno Sutrisno, Daratu Eviana Kusuma Putri, Eli Hendrik Sanjaya and Husni Wahyu Wijaya	42	Individual Curcuminoids: Antioxidant activities and Its Separation from Yellow Turmeric (<i>Curcuma longa</i> Linn)
16.30 - 16.45	Astri Anjani, Dyah Utami Cahyaning Rahayu and Endang Saepudin	105	Microwave-assisted Synthesis and Antibacterial Bioactivity of 4-Methyl-2-Quinolone Derivatives
16.45 - 17.00	Alfa Wezy Anugrah Purba, Dyah Utami Cahyaning Rahayu and Sri Handayani	107	Microwave-assisted Synthesis of 4-Methyl Coumarins via Knoevenagel Condensation and Its Antibacterial Activities



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Day 1, October 12nd 2021

Room 2 (Chemical Instrumentation & Sensor)			
Time	Author	ID Number	Title
12.30 - 13.00	Invited Speaker Zulfikar, Ph.D.	-	Development Array Sensor for Detecting Robusta Coffee Aroma
13.00 - 13.15	Akhmad Sabarudin, Aulia Ayuning Tyas, Bagas Dwi Pamungkas, I Gede Bhaskara Adi Pratama, Ulfa Andayani and Setyawan Purnomo Sakti	8	Determination of Cystatin C Using Paper-based Analytical Devices for Early Detection of Renal Failure
13.15 - 13.30	Kikie Trivia Amalia, Nurrahmah Nurrahmah, Ulfa Andayani, Setyawan Purnomo Sakti and Akhmad Sabarudin	9	Colorimetric Determination of Albumin to Creatinine Ratio Using Paper-based Analytical Devices for Rapid Detection of Kidney Disfunction
13.30 - 13.45	Sintia Puji Astutik, Rurini Retnowati, Hermin Sulistyarti, Suratmo, Vina Khurnia Wati and Nikmatius Zahro Wahidah	26	The Potency of Natural Dyes from Kesumba Seeds Extract (<i>Bixa orellana</i> L.) for Identification of Animal Fats by UV-vis Spectrophotometry
13.45 - 14.00	Lani Artana Putri, Puspita Mufidah Sari, Hermin Sulistyarti, Akhmad Sabarudin and Erwin Sulistyarto	28	Determination of Ammonia in Pond Water by Gas-Diffusion Flow Injection Analysis (GD-FIA)-Spectrophotometry using Minnieroot Flower (<i>Ruellia tuberosa</i>) as Natural Reagent
14.00 - 14.15	Hermin Sulistyarti, Dwi Yulianti Ariska, Rurini Retnowati, Akhmad Sabarudin, Puspita Mufidah Sari and Muhammad Deni Anugerah	29	Biosynthesis Silver Nanoparticle Using Extract of Tomato (<i>Solanum lycopersicum</i>) for The Development of Spectrophotometric Mercury Detection
14.15 - 14.30	Boyfannie Ivan Putra, Muhammad Nurul Masyhudi, Hermin Sulistyarti, Akhmad Sabarudin and Puspita Mufidah Sari	36	Development of the GD- μ PAD (Gas Diffusion Microfluidic Paper-Based Analytical Device) To Measure Total Ammonia in Saliva Using Secang Wood Extract (<i>Caesalpinia Sappan</i> L.)
14.30 - 14.45	Ani Mulyasuryani, Rachmat Triandi, and Zainul Abidin	45	Mini Electrode Based on Chitosan-Activated Carbon Membrane for Detection Paracetamol in Herbal Medicine
14.45 - 15.00	Maulida Fajriyah, Yeni Wahyuni Hartati, Shabarni Gaffar, Anni Anggraeni and Yusuf Rohmatulloh	48	Modification of a Screen-Printed Carbon Electrode with Cerium and Optimization of Electrochemical Biosensor Experimental Conditions for Mitochondrial DNA Detection <i>Sus scrofa</i>
15.00 - 15.30	Break		
15.30 - 15.45	Gabriel D. Devian, Yatim L. Ni'Mah and Suprpto Suprpto	47	Identification of Ammonia as A Biomarker of Chronic Kidney Disease by Gas Sensor Array

15.45 - 16.00	Suharti Suharti, Soenar Soekopitojo, Surjani Wonorahardjo and Rahmi Masita	55	A Mini-Review on PCR Application for Microbial Impurities in Toyyiban Verification
16.00 - 16.15	Suharti Suharti, Soenar Soekopitojo, Surjani Wonorahardjo and Rahmi Masita	56	A Mini-Review on PCR Inhibition in Halal Verification
16.15 - 16.30	A. Ghanaim Fasya, Dewi Sinta Megawati, Vivi Septya Wati, Vinna Siti Hardianti Fauzi and Hasan Ali Mahbubi	57	Antioxidant Activity and Toxicity Test of Column Chromatography Steroids Isolates from Chloroform Fraction of Hydrilla verticillata
16.30 - 16.45	Muhammad Arief Nuryadin, Barlah Rumhayati and Adam Wiryawan	59	PIM Preparation and Characterization with DBP Plasticizer as Passive Sampler for Phosphate Measurement
16.45 - 17.00	Akhmad Sabarudin and Ayu Rahayu Anggraeni	84	Van Deemter Equation Versus Separation Impedance for Chromatographic Efficiency Evaluation of Poly-(Lauryl Methacrylate-co-Ethylene Dimethacrylate) Monolithic Column through Separation of Alkylbenzenes



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Room 3 (Environmental & Material Chemistry)			
Time	Author	ID Number	Title
12.30 - 13.00	Invited Speaker Dr. Irma Puspita Kusumaningrum	-	Development of Cross-Linked Carboxymethyl Kappa Carrageenan Coated Nanomagnetite as Copper Ion(II) Adsorbent
13.00 - 13.15	Lilik Zulaihah, Mohammad Rachman Waluyo and Alina Cynthia Dewi	4	Experimental Study of Polyurethane Foam Absorption of Transportation Exhaust Gas Pollutants in Pondok Labu City South Jakarta
13.15 - 13.30	Soerjani Widyastuti, Nur Yusrina, Mohammad Misbah Khunur and Yuniar Ponco Prananto	16	Preliminary Study of On-site Aqueous Chemical Laboratory Waste Treatment Based on Lean Manufacturing Concept
13.30 - 13.45	Layta Dinira	23	Extraction Efficiency of Recent Macrocyclic Ligand for the Separation of Heavy Metal Ions by Liquid-Liquid Extraction: A Review
13.45 - 14.00	Chairul Irawan, Abubakar Tuhuloula, Iryanti Fatyasari Nata, Dini Aprilla and Indah Purnamasari	27	Synthesis of The Modified Surface Functional Group of Activated Carbon from The Coffee Ground and Its Application for Removal of Nitrate from The Tofu Industry Processing Wastewater
14.00 - 14.15	Roza Ruspita and Atika Aulia	41	Analysis of Water Quality at Karangantu Fishing Port Area Based on Pollution Index Method
14.15 - 14.30	Angela Novelia, Anisun Zakiyah and Yuly Kusumawati	46	The Removal of Methylene Blue Solutions Using Zinc Oxide Nanoparticles Prepared by Polyol Method
14.30 - 14.45	Yusron Maulana and Yudhi Utomo	58	Use of Humic Acid to Reduce Chromium(VI) Contaminants in Industrial Waste
14.45 - 15.00	Abdillah Al Farraby and Yudhi Utomo	62	Citrate Modified Sugarcane Bagasse Adsorption Capacity on Heavy Metal Cadmium
15.00 - 15.30	Break		
15.30 - 15.45	Muhammad Lathif Al-Abror, Erna Hastuti and Anton Prasetyo	66	Molten Salt Synthesis of SrBi ₄ Ti ₄ O ₁₅ for Methylene Blue Degradation
15.45 - 16.00	Intan Permatasari Abriyanto, Raga Bimantoro, Sari Yuliani, Silvia Ariyani M., Vania Archardiva Kusuma and Tutuk Djoko Kusworo	89	Performance Evaluation of PET/CA/SiO ₂ (Scaling Waste from Geothermal) Nanofiltration Membrane for Batik Industry Wastewater Treatment

16.00 - 16.15	Kun Budiasih, Eli Rohaeti and Tony Wijaya	90	Application of <i>Caesalpinia sappan</i> L, <i>Cudrania javanensis</i> and <i>Indigofera tinctoria</i> natural dyes on Lurik woven product
16.15 - 16.30	Siti Siregar, Peggy Clarita, Yuliana Yuliana, Putri Ayudianingsih, Nurhayati Nurhayati and Amir Awaluddin	104	Different Approach of Preparation Ag-modified Cryptomelane type-Manganese Oxide by Sol-gel Method for Methylene Blue Dye Removal
16.30 - 16.45	Ika Meicahayanti, Ratu Fortuna Prameswari Tantowi Putri and Dwi Ermawati Rahayu	109	Identification of Microplastic in The Intake Area of Teluk Lerong Water Treatment Plant Samarinda
16.45 - 17.00	Ulfa Andayani	110	Biosorption of Co(II) and Ni(II) by <i>Trichoderma viride</i> Immobilized in Ca-Alginate



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Room 4 (Polymer Chemistry & Chemical Process)			
Time	Author	ID Number	Title
12.30 - 13.00	Invited Speaker Nanang Masruchin, Ph.D.	-	Nanocellulose Production with Eco-Technology Concept and Its Applications
13.00 - 13.15	Noverra Mardhatillah Nizado and Dzul Fadli Alimin	35	Synthesis and Characterization of pH and Thermosensitive Nanogels of Poly(N-vinylcaprolactam-co-N-methylolacrylamide) Using Emulsion Polymerization
13.15 - 13.30	Gading Bagus Mahardika, Ranandhiya Salsabila, Firman Kurniawansyah, Hikmatun Ni'Mah, Tantular Nurtono and Mahfud Mahfud	43	Synthesis of Alternative Hard Capsule from Carrageenan and Starch using Glycerol as Plasticizer
13.30 - 13.45	Barlah Rumhayati, Hanifah Nur Aini and Ani Mulyasuryani	51	Development of Phosphate Measurement Method with Passive Sampling Technique Using Polymeric Inclusion Membrane (PIM) Aliquat 336 Chloride/1-Dekanol as Passive Sampler
13.45 - 14.00	Fathia Rahmatul Aziah, Nur Ikhtiarini, Masruri Masruri, Arie Srihardyastutie and Moh Farid Rahman	63	Characterization of Microcrystalline Cellulose Derived from Pinewood Waste (<i>Pinus merkusii</i>) Hydrolyzed with Hydrochloric Acid
14.00 - 14.15	Abdul Halim, Lusi Ernawati, Maya Ismayati, Fahimah Martak, Toshiharu Enomae, Ibrahim Nata Imani and Brigita Cahya Wulandari	64	Cellulose Hydrogel Coated Fabric as Superoleophobic Membrane for Oily Wastewater Treatment
14.15 - 14.30	Moh Rifqi Nawafi, Masruroh and Dionysius J.D.H. Santjojo	96	Morphological and Mechanical Study of Gelatin/Hydroxyapatite Composite based Scaffolds for Bone Tissue Regeneration
14.30 - 14.45	Eli Rohaeti, Amalia S N Annisa, Isti Yunita and Suwardi Suwardi	101	Biodegradability of Cellulose Composites Deposited by Nanoparticle
14.45 - 15.00	Sri Fahmiati, Yenny Meliana and Ridha Marta Putri	102	Characterization of Styrene and Methyl Methacrylate Copolymer/Cu ₂ O Synthesized by Nanoemulsion Polymerization.
15.00 - 15.30	Break		
15.30 - 15.45	Qolby Sabrina, Hilwa Kamilah, Christin Rina Ratri, Sitti Ahmiatri Saptari and Titik Lestariningsih	103	Properties of Bacterial Cellulose/Polyvinyl Composite Membrane for Polymer Electrolyte
15.45 - 16.00	Ika Oktavianawati, Mya Ulfa and Wuryanti Handayani	13	The Effect of Column Length and Duration of Water Distillation on The Profile of Essential Oil from Java Citronella (<i>Cymbopogon winterianus</i>) Leaves

16.00 - 16.15	Istiqomah Rahmawati, Boy Arief Fachri, Shima Nuril Pradipta, Nurtsulutsiyah, Nadhilah Shabrina, Diza Raudhatul Afwal and Muhammad Reza	14	Application of Response Surface Methodology in Optimizing Condition of Phenolic Compounds Extraction from Cocoa Pod Husk Waste (<i>Theobroma cacao</i> L.) using Ultrasonic Assisted Extraction (UAE) Method
16.15 - 16.30	Aulia Qisti, Daffa Rizal Dzulfaqaar Alauddin, Eka Nurkhayati, Tiara Novia Sanggraini, Thoriq Aziz and Daratu Eviana Kusuma Putri	71	Hand Sanitizer Production Using Bioethanol from Sugarcane Bagasse Fermentation Through Thermal Hydrolysis Process
16.30 - 16.45	Yayang Setyawan, Lukman Hakim and Zubaidah Ningsih A.S.	97	Curcumin Nanoemulsion Formulation with Phase Inversion Temperature (PIT) Method
16.45 - 17.00	Anak Agung Istri Ratnadewi, Indras Dwi Anggita, Rosa Safitri, Firda Marta Safitri and Boy Arief Fachri	106	Cellulose Hydrolysis Process of Red Dragon Fruit Pell (<i>Hylocereus Costaricensis</i>) as Candidate for Bioethanol Production



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Day 2, October 13rd 2021

Room 1 (Material Chemistry)			
Time	Author	ID Number	Title
08.15 - 08.30	Rizki Marcony Surya, Yoki Yulizar, Antonius Herry Cahyana and Dewangga Oky Bagus Apriandanu	3	The Leaves Extract Utilisation for Hematite Nanoparticles Fabrication
08.30 - 08.45	Sri Wardhani, Marda Ahsany, Rachmat Triandi Tjahjanto and Danar Purwonugroho	10	Effect of Sodium Tripolyphosphate Concentration on Precipitated Calcium Carbonate (PCC) Particle Size
08.45 - 09.00	Iryanti Fatyasari Nata, Doni Wicakso, Agus Mirwan, Chairul Irawan, Niken Astuti and Rizka An-Nisa	19	Synthesis of rice husk magnetic nanoparticle biocomposites: Evaluation on rice husk fiber concentration and Characterization
09.00 - 09.15	Fauziatul Fajarah, Firdaus Assidiqi, Olvi Dyah Fernanda, Muhammad Rafli and Siti Marfu'Ah	49	Synthesis of ZnO NPs with Green Chemistry Principles Using Mangosteen Peels Extract (<i>Gracinia mangostana</i> L.) as Capping Agent and Its Characterization as Antibacterial
09.15 - 09.30	Alfitrah Bachtiar, Husni Wahyu Wijaya, I Wayan Dasna and Nani Farida	50	Analysis of the ABW-Structured Li-ZnPO ₄ Crystal Growth with X-Ray Diffraction and CrystalGrower Simulation
09.30 - 09.45	Ervin Cahyaningtiyas, Puspitasari, Utiya Hikmah, Erna Hastuti, Nur Aini and Anton Prasetyo	65	Crystal Structure Parameters Analysis of rGO-TiO ₂ Composite Using Debye-Scherrer and Rietveld Method
09.45 - 10.00	Novia Alfiyansyah Putri, Anton Prasetyo and Utiya Hikmah	67	Synthesis and Characterization of Reduced Graphene Oxide (rGO) Using Chemical Exfoliation Method Assisted by Microwave Radiation
10.00 - 10.30	Break		
10.30 - 10.45	Tyas Nurul Zafirah, Masruroh, Istiroyah, Adin Okta Triqadafi and Setyawan P. Sakti	83	Frequency Response of Polystyrene Films coated on Quartz Crystal Microbalance to chloroform vapors
10.45 - 11.00	Lukman Hakim, Siti Mariyah Ulfa and Hideki Tanaka	87	On the Occupancy of Hydrophobic Guest Molecules inside EDI Zeolitic Ice
11.00 - 11.15	Eli Rohaeti, Destyana S Elmina, Amalia S N Annisa, Kun S Budiasih and Nur Aeni Ariyanti	92	Mechanical Properties and Biodegradability of Modified Skin with Nanoparticle Prepared by <i>Peperomia pellucida</i>
11.15 - 11.30	Fahmi Al Aziz, Ananda Ilham M Fauzy, Setyawan P Sakti, Dionysius J. D. H Santjojo and Masruroh	94	Effect of Rotational Speed in Planetary Ball Milling on the Particle Size and Crystal Structure of CaMnO ₃ as a Thermoelectric Material

11.30 - 11.45	Widiya Nur Safitri, Maria Ulfa, Didik Prasetyoko and Wega Trisunaryanti	118	Variation of Surfactant Concentration P123:Gelatin on the Synthesis and Characterization of Mesoporous Nanosilica
11.45 - 12.00	Holilah Holilah, Didik Prasetyoko and Ratna Ediat	116	Hydrolysis of industrial pepper waste (<i>Piper nigrum</i> L.) using inorganic and organic acids for formation of rod and sphere nanocrystalline cellulose
12.00 - 12.15	Fauziatul Fajarah, Firdaus Assidiqi, Siti Marfu'Ah, Adilah Aliyatulmuna and Muhammad Rafli	121	Synthesis of ZnO NPs with Green Chemistry Principles Using Mangosteen Pericarps Extract (<i>Garcinia mangostana</i> L.) As Capping Agent and Its Characterization as Antibacterial



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Day 2, October 13rd 2021

Room 2 (Catalys & Catalysis)			
Time	Author	ID Number	Title
08.15 - 08.30	Nihayatur Rohmah and Irmira Murwani	2	Catalyst Selectivity of Mg _{1-x} Fe _x F ₂ In The Reaction Synthesis of Vitamin E
08.30 - 08.45	Muhammad Roy Asrori, Aman Santoso, Sumari Sumari and Yana Fajar Prakasa	20	A review: Synthesis of Amphiphilic Material and Its Potential in Catalysis System of Biodiesel Synthesis
08.45 - 09.00	Damiana Nofita Birhi, Adzkie Qisthi Ismail, Elvina Dhiaul Iffitah and Warsito	21	One-Pot Catalytic Oxidation for Transforming Eugenol to Vanillin Using ZnAl ₂ O ₄ Catalyst
09.00 - 09.15	Yana Fajar Prakasa, Sumari Sumari, Aman Santoso and Muhammad Roy Asrori	22	ZSM-5-Based Catalyst: A Valuable Approach toward Biodiesel Production. A Review
09.15 - 09.30	Siti Nurul Afifah, Masruri Masruri, Arie Srihardyastutie and Moh. Farid Rahman	33	Directed study of pine's rosin reaction under non-precious metal catalyst
09.30 - 09.45	Sumari Sumari, Dwiky El Fizar Kustanto, Aman Santoso and Fauziatul Fajaroh	34	Catalyst of Ag-Zn/ZSM-5 for the Conversion of Glycerol to Ethanol
09.45 - 10.00	Aman Santoso, Sumari Sumari and Muhammad Roy Asrori	44	Effect of Activated Zeolite on Oil Yield in Double Scale Pyrolysis with Various Types of Plastic Waste
10.00 - 10.30	Break		
10.30 - 10.45	Daratu Eviana Kusuma Putri	52	Hydroxyapatite: A review of synthesis, structure, and application as heterogeneous catalyst in chalcones derivatives synthesis
10.45 - 11.00	Mazizah Ridha Adianti Helmi, Yuni K. Krisnandi and Dyah Utami Cahyaning Rahayu	78	Microwave-Assisted Catalytic Conversion of Biomass into 5-Hydroxymethylfurfural (5-HMF) and Levulinic Acid using Hierarchical Mn ₃ O ₄ /ZSM-5 Catalyst
11.00 - 11.15	Rinny Jelita, Meilana Dharma Putra, Iryanti Fatyasari Nata, Chairul Irawan and Jefriadi	91	A Quality Improvement of Low Rank Coal and Biomass by Pyrolysis
11.15 - 11.30	Nurul Fikriazizah and Antonius Herry Cahyana	93	Study of the Application of Ionic Liquid Catalyst for Aldazine Synthesis
11.30 - 11.45	Yorinda Buyang, Didik Prasetyoko and Suprpto Suprpto	115	Biofuel Production From Reutealis Trisperma oil pyrolysis with dolomit catalyst as a renewable energy sources

11.45 - 12.00	Reva Edra Nugraha, Hari Purnomo, Didik Prasetyoko and Suprpto Suprpto	117	The Role of Micro and Mesoporosity of Aluminosilicate Catalyst for Solvent-Free Deoxygenation of Oleic Acid
12.00 - 12.15	Amman Santoso, Sumari, Muhammad Roy Asrori, Anugrah Ricky Wijaya, Rini Retnosari, Ihsan Budi Rachman, Amirotus Sholikhah	120	Effect of Active Zeolite in the Pyrolysis of PP and LPDE Types of Plastic Waste



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Room 3 (Inorganic and Material Chemistry)			
Time	Author	ID Number	Title
08.15 - 08.30	Putri Nuzilla Shafira, Anna Safitri and Yuniar Ponco Prananto	17	Synthesis of Anion-dependent Zinc(II)-Niacinamide Complexes by Layered Solution Method
08.30 - 08.45	Nadia Cikita Handayani, Anna Safitri and Yuniar Ponco Prananto	18	Synthesis of Anion-dependent Copper(II)-Niacinamide Complexes by Layered Solution Method
08.45 - 09.00	Reza Mega Wahyuni, Husni Wahyu Wijaya, Meyga Evi Ferama, I Wayan Dasna and Nani Farida	39	Synthesis and Characterization of Ionic Complex Compounds from Cadmium(II) Chloride with N,N'-Diethylthiourea
09.00 - 09.15	Maisulah Maisulah, Husni Wahyu Wijaya, Nani Farida and I Wayan Dasna	54	Synthesis and Characterization of Zn _x Mn _{2-x} O ₄ (x = 0.05; 0.10; 0.15 and 0.25) Synthesis and Characterization of Zn _x Mn _{2-x} O ₄ (x = 0.05; 0.10; 0.15 and 0.25)
09.15 - 09.30	Ahmadiansyah, Diah Mardiana and Akhmad Sabarudin	95	Synthesis of MnO ₂ /Biochar Nanocomposite Using Sonochemical Method for Adsorption of Pb(II)
09.30 - 09.45	Lulu Aulia, Munawar Khalil and Ivandini Tribidasari Anggrainingrum	80	Fabrication of NiO Nanoporous as Electrocatalyst Hydrogen Gas Evolution Reaction
09.45 - 10.00	Mohammad Wijaya, Muhammad Wiharto, and Army Auliah	111	Separation Compound Chemical from Cacao Vinegar In Different Temperature Based Eco Friendly
10.00 - 10.30	Break		
10.30 - 10.45	Abdul Basyir	113	Thermal Phenomenon and Emission Spectrum Study of Pyrotechnic Based on Aluminum-Charcoal Fuel and Arabic Gum
10.45 - 11.00	Novita Andarini, Mohammad Qosim and Tanti Haryati	123	Synthesis of TiO ₂ Nano with Hydrothermal Method Dooped Fe for Diazinon Pesticide Degradation
11.00 - 11.15	Busroni Busroni, Jumina, Sri Juari S., Dwi Siswanta, Chairil Anwar	5	One Step Synthetic Method Material of p-Tert. Butylcalix[4]arene Derivative via Direct Benzoylation: Mechanism Models
11.15 - 11.30	Busroni Busroni, Dwi Siswanta, Jumina, Sri Juari Santosa, Chairil Anwar	7	Preparation and Application of Calixarene Derivatives Bearing Benzoyl Groups For Removal Fe(III) Cations
11.30 - 11.45	Nuni Widiarti, Didik Prasetyoko and Yatim Lailun Ni'Mah	122	Synthesis of CaO from dolomit Madura using rara saponin as a base catalyst for transesterification reaction of Waste Cooing Oil (WCO)

11.45 - 12.00	Yudi Aris Sulistiyo, Landep Ayuningtias, Siti Aisah, Nur Abqoriah, Tanti Haryati, Novita Andarini, Suwardiyanto	128	Catalytic hydrogenolysis of glycerol to 1,3-propanediol using Mo/SiO ₂ and hydrogen transfer reaction
12.00 - 12.15	Yudi Aris Sulistiyo, Mutiara Alfiah, Amanda Dwi Widyatmiko Wahyani, Tanti Haryati, Suwardiyanto, I Nyoman Adi Winata, Novita Andarini	127	Cationic and Anionic Dye Removal Using Modified Silica Gel with Ethanolamine



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Room 4 (Biochemistry)			
Time	Author	ID Number	Title
08.15 - 08.30	Mega Nuraini, Subandi, Muntholib, Suharti and Eli Hendrik Sanjaya	15	Double Potential Powder Sugar Apple (<i>Annona squamosa</i>) and Watermelon Mesocarp (<i>Citrullus lanatus</i>) as inhibitory Lipase Pancreatic and Xanthine Oxidase
08.30 - 08.45	Evi Susanti, Dian Putri Novitasari and Suharti Suharti	25	Characterization of Crude Extract of Protease from <i>Bacillus megaterium</i> TR-10 as Efforts to Support Halal Collagen Production Process
08.45 - 09.00	Evi Susanti, Tri Ardyati, Suharjono Suharjono and Aulani'am Aulani'am	32	Characterization of Lignin Peroxidase from <i>Phanerochaete chrysosporium</i> ITB isolate
09.00 - 09.15	Indah Permatasari, Nur Faridah and Suharti Suharti	60	Keratinase Characterization of Protease Producing Halophilic Bacteria using BK-1H Isolate from Bledug Kuwu Mud Crater, Central Java
09.15 - 09.30	Lina Maziyatus Salamah, Nur Faridah, Andriyani Andriyani and Suharti Suharti	61	Consortium of <i>Salinivibrio proteolyticus</i> and <i>Bacillus</i> sp. MD24 in Keratinase Fermentation
09.30 - 09.45	Muhammad Izzan Ahsan Sitepu, Munawar Khalil and Andriansjah	79	Detection of Tuberculosis using Gold Nanoparticles modified by ssDNA IS6110
09.45 - 10.00	Muhammad Mahdum Rosyid, Subandi Subandi, Evi Susanti, Sumari Sumari and Muntholib Muntholib	82	THE INHIBITION POWER OF THE WATERMELON MESOCARP-ENDOCARP MIXTURE TO THE PANCREATIC LIPASE AND ITS ORGANOLEPTIC PROPERTIES
10.00 - 10.30	Break		
10.30 - 10.45	Padil Padil, Meilana Dharma Putra, Iryanti Fatyasari Nata, Doni Rahmat Wicakso, Zulfarina Zulfarina, Chairul Irawan and Sunarno Sunarno	99	Microalgae Growth Kinetic Study with Logistic and Monod Models
10.45 - 11.00	Achmad Sjaifullah, I Nyoman Adi Winata, Cici Desi Septiana	125	Hydrolysis of White Shrimp Shell (<i>Penaues Vannamei</i>) Protein by Chicken Intestine Enzymes
11.00 - 11.15	Wuryanti Handayani, Anak Agung Istri Ratnadewi, Agung Budi Santoso, Dewanti Oktaviana K		Study of Enzyme Endo-1,4- β -Endoxylanase Kinetics in the Hydrolysis of Xilan Skin Cassava Substrate
11.15 - 11.30	Wuryanti Handayani, Esti Utarti, Muhamad Kiki Afindia Joenata, Anak Agung Istri Ratnadewi		Fractionation of Goat Hepatic Uricase Using Ammonium Sulphate with Variations in Concentration and Precipitation Time

11.30 - 11.45	Dwi Indarti, Bambang Piluharto, Anyberta Dwi Listyanti		Synthesis of Cellulose Acetate from Corn Cobs as Membrane Material with Variations in Amount of Acetic Anhydride
11.45 - 12.00	Bambang Piluharto, Rina Silviah, Dwi Indarti, Busroni	124	Nanocellulose Content as Reinforcing Agent in Composite Film and Influence on Mechanical Properties
12.00 - 12.15	I Nyoman Adi Winata, Achmad Sjaifullah, Zulfa ilmi	126	Composite of Zeolite and Arrowroot Starch-G-Poly(Acrylic Acid-Co-Acrilamide) Hydrogel as Matrix of Controlled Release Phosphate Fertilizers



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Room 5 (Computational Chemistry & Miscellaneous)			
Time	Author	ID Number	Title
08.15 - 08.30	M.V. Reddy		Nano Materials and applications: Physics of Thin films & applications
08.30 - 08.45	Yanuar Setiadi, Muhamad Basit Febrian and Badra Sanditya Rattyananda	24	Computational Analysis on The Development of New Technetium-99m-labeled Pentapeptide for Cancer Molecular Imaging Targeting Integrin $\alpha 5\beta 1$
08.45 - 09.00	Siti Mariyah Ulfa, Andrian Sucahyo and Nishizawa Mikio	37	Molecular Docking Analysis of the Constituent in the Fruits of <i>Morinda citrifolia</i> using PI3K/mTOR Receptor of Liver Cancer
09.00 - 09.15	Swarup Ghosh and Joydeep Chowdhury	85	Pressure Induced Structural Phase Transitions and Electronic Properties of Wide Band Gap Charge Transfer Insulator Mercurous Chloride: A First-Principle DFT Study
09.15 - 09.30	Nuril Fadila, Artoto Arkundato, Ratna Dewi Syarifah, Mohammad Ali Shafii and Lutfi Rohman	100	Effect of Chromium Addition for Stabilizing the Crystal Structure of Iron in Liquid Bismuth
09.30 - 09.45	Anak Agung Istri Ratnadewi, Safitri Eka and Laily Nafis	108	Molecular Docking and Site-Directed Mutagenesis of Endo- β -1,4-D-Xylanase of <i>Bacillus</i> sp. From Soil Termite Abdomen to Improve Enzyme Effectiveness
09.45 - 10.00	Metika Mega Agata, Selvi Amelia Virda, Aria Darmawan, Hikmatun Ni'mah, Achmad Roesyadi, and Firman Kurniawansyah	112	Kappa Number and Viscosity in Oxygen Delignification of Kraft-Pulp <i>Eucalyptus Pellita</i> in Comparison with Prediction Data
10.00 - 10.30	Break		
10.30 - 10.45	Sudarko, Laili Nafis, Anak Agung Istri Ratnadewi		Identification and Modification of The Catalytic Side Endo- β -1,4-D-Xylanase Origin of <i>Bacillus</i> sp Abdominal Terms In-Silico
10.45 - 11.00	Tri Mulyono, Asnawati, Ainul Avida		Sequential Injection Analysis (SIA) for the Determination of Sulfide Ion Using Visible Spectrophotometric Detection
11.00 - 11.15	Umi Sahrin Ni'mah, Siswoyo, dan Yudi Aris Sulistiyo		Voltammetric deposition of cobalt on carbon electrode for phosphate potentiometric sensor
11.15 - 11.30	Baiq Emalia Pebriatin, Vita Valiana, Siti Sainidah, Ika Oktavia Wulandari, Akhmad Sabarudin, Dewi Ratih Tirto Sari		Synthesis of Silver Nanoparticles Using Kepok Banana Peel Extract (<i>Musa Paradisiaca</i> Linn) Modified Chitosan as an Alternative Ingredients of Non-Alcoholic Hand Sanitizer
11.30 - 11.45			

