

# POSTER SESSION – DAY 1

## ROOM: AKASIA BALLROOM – DAY 1, 10.30-11.30 WIB

ID	POSTER NO.	TITLE	AUTHORS AND INSTITUTIONS
115	01	Antioxidant and Xanthine Oxidase Inhibitory Activities of Leaf Extract of Kecapi ( <i>Sandoricum koetjape</i> )	Fajar Nur Hamzah <sup>[1]</sup> , Subandi <sup>[1]</sup> , Wawan Sujarwo <sup>[2]</sup> and Tjandrawati Mozef <sup>[3]</sup>  [1]. Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, State University of Malang, Indonesia [2]. The Bali Botanic Garden, Indonesian Institute of Sciences, Tabanan, Bali, Indonesia [3]. Research Centre for Chemistry, Indonesian Institute of Sciences, Serpong, Indonesia
2	02	Effect of Methyl Substituent on the Solubility of 1,4-Benzoquinone Derivatives in the Octanol/Water Partition System	Siti Maryah Ulfa <sup>*[1]</sup> , Ade Cintya Sally <sup>[1]</sup> , and M. Farid Rahman <sup>[1]</sup>  [1] Chemistry Department, Faculty of Science, Brawijaya University, Malang, Indonesia
102	03	In Silico Analysis of Saponin Isolates from Mesocarp of Cucumber ( <i>Cucumis sativus</i> L.) and Purple Eggplant ( <i>Solanum melongena</i> L.) as Pancreatic Lipase Inhibitor	Mely Wijaya <sup>[1]</sup> and Subandi <sup>*[1]</sup>  [1]. Dept. of Chemistry, State University of Malang, Indonesia
209	04	New Record: Chemical Investigation of <i>Equisetum ramosissimum</i> Desf. from Ijen Crater Nature Preserve	Andik Wijayanto <sup>*[1]</sup> , Suhadi <sup>[1]</sup> , Murni Saptasari <sup>[1]</sup> , Dyah Ayu Pitaloka <sup>[1]</sup> , Fira Fitria Jihans <sup>[1]</sup> , M. Hisyam Baidlowi <sup>[2]</sup> , Mohd Zuwairi Bin Saiman <sup>[3]</sup> , Eko Sri Sulasmi <sup>[1]</sup>  [1] Faculty of Mathematics and Natural Sciences, State University of Malang, Indonesia [2] Al Hikmah Nursing Vocational High School, Poncokusumo, Malang, East Java, Indonesia [3] Institute of Biological Sciences, Faculty of Science, University of Malaya, Malaysia
22	05	Profile Analysis of Fatty Acid and Antibacterial Potential of Oil Extracted from Tengkwang ( <i>Shorea sumatrana</i> )	Yusnelti <sup>[1]</sup> , Rico Gewana Resdy Maulana <sup>[2]</sup> , Indra Lasmana Tarigan <sup>*[1]</sup>  [1]. Department of Chemistry, Faculty of Science and Technology, Universitas Jambi [2]. Department of Industrial Chemistry, Faculty of Engineering, Universitas Sumatera Utara
145	06	The Effect of Ultrasonic Wave and K <sub>2</sub> O/Al <sub>2</sub> O <sub>3</sub> Catalyst Concentration on Synthesis of Methyl Ester (Biodiesel) from Off Grade CPO	Aman Santoso <sup>*[1]</sup> , Anugrah Ricky Wijaya <sup>[1]</sup> , Chandra Fetty P <sup>[1]</sup> , Dedek Sukarianingsih <sup>[1]</sup> , Sumari <sup>[1]</sup>  [1]. Department of Chemistry, Faculty of Mathematics and Natural Sciences, State University of Malang, Indonesia

80	07	Characterization of Protease Soluble Collagen (PSC) from Milkfish Scales ( <i>Chanos chanos</i> )	Nia Lutfiana <sup>[1]</sup> , Suharti <sup>[1]</sup> , Evi Susanti* <sup>[1]</sup> [1]. Dept. of Chemistry, Faculty of Mathematics and Natural Science, State University of Malang, Indonesia
51	08	Kinetics Study of Photocatalytic Activity of Bismuth Oxide Prepared by Different Methods on Methyl Orange Degradation	Yayuk Astuti* <sup>[1]</sup> , Arum Dista Wulansari <sup>[1]</sup> , Indira Nastasya Ayna Saffa <sup>[1]</sup> , Prisca Putri Elesta <sup>[1]</sup> , Adi Darmawan <sup>[1]</sup> , Abdul Haris <sup>[1]</sup> , Didik S. Widodo <sup>[1]</sup> [1]. Dept. of Chemistry, Faculty of Science and Mathematics, Diponegoro University, Semarang, Indonesia
129	09	Green Synthesis of ZnO Nanoparticles by Using Banana Peel Extract as Capping agent and Its Bacterial Activity	Siti Marfu'ah <sup>[1]</sup> , Santias Megasani Rohma <sup>[1]</sup> , Thutug Rahardiant Primadi <sup>[1]</sup> , Endang Ciptawati <sup>[1]</sup> , Sumari <sup>[1]</sup> , Adrian Nur <sup>[2]</sup> , Fauziatul Fajaroh* <sup>[1]</sup> [1]. Dept. of Chemistry, Faculty of Mathematics and Natural Science, State University of Malang, Indonesia [2] Dept. of Chemical Engineering, UNS, Indonesia
222	10	Isolation of A Phenolic Compound and Antioxidant Activity Test In Some Extracts Fraction of Broken-Bones Plant ( <i>Euphorbia tirucalli</i> L.)	Meiske Sangi* <sup>[1]</sup> , Julius Pontoh <sup>[1]</sup> , Farha Dapas <sup>[2]</sup> [1]. Department of Chemistry, Faculty of Science, Sam Ratulangi University, Manado, Indonesia [2]. Department of Biology, Faculty of Science, Sam Ratulangi University, Manado, Indonesia
223	11	Anti-Inflammatory Test from Ethyl Acetate Fraction of Palm ( <i>Arenga Pinnata Merr.</i> ) Frond Midrib Grain Flours in Carrageenan-Induced White Male Wistar Rats Paw Edema	Meiske Sangi* <sup>[1]</sup> , Julius Pontoh <sup>[1]</sup> , Silvana Veronica <sup>[1]</sup> [1]. Department of Chemistry, Faculty of Science, Sam Ratulangi University, Manado, Indonesia
96	12	Antifungal Activity from Co-Culture of a Local Fungus of Tropical Peat Swamp Soil, <i>Penicillium sp.</i> LBKURCC34 with Gram Negative and Gram Positive Bacteria	Yuana Nurulita, Yuharmen, Andy Dahliati, Yum Eryanti, Yuli Haryani, Supridianto, Khairulinas, and Titania Tjandrawati Nugroho [1]. Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, University of Riau, Pekanbaru, Indonesia
93	13	Inhibition of Cancer Cell Proliferation by Red Dragon Peel ( <i>Hylocereus polyrhizus</i> ) Extracts	Rudi Hendra* <sup>[1]</sup> , Rohimatul Khodijah <sup>[1]</sup> , Rizky Abdulah <sup>[2]</sup> , Yuli Haryani <sup>[1]</sup> [1]. Department of Chemistry, Faculty of Mathematics and Natural Sciences, University of Riau, Pekanbaru, Indonesia [2]. Faculty of Pharmacy, University of Padjadjaran, West Java, Indonesia
171	14	Synthesis of Ti/W/Si Composite as Catalyst for Photo-degradation of Rhodamine B	Prilianda Kusmiaty <sup>[1]</sup> , Karina Adhaina <sup>[1]</sup> , Noor Hindryawati <sup>[1]</sup> , Soerja Koesnarjadi <sup>[1]</sup> [1]. Department of Chemistry, Mulawarman University, Samarinda, Indonesia

92	15	Bacterial and Fungal Endophytes from Mangrove of Sei Pakning Coast of Bengkalis, Riau Province, Indonesia	Yuli Haryani* <sup>[1]</sup> , Tetty Martalinda <sup>[2]</sup> , Rahmiwati Hilma <sup>[3]</sup> , Noviza Delfira <sup>[3]</sup> , Fifi Puspita <sup>[4]</sup> , Amelia Friska <sup>[1]</sup> , Dita Juwita <sup>[1]</sup> , Rudi Hendra <sup>[1]</sup> , Yuana Nurulita <sup>[1]</sup> , Fri Ardi <sup>[5]</sup>  [1]. Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, University of Riau, Pekanbaru [2]. Dept. of Chemistry, Faculty of Health and Natural Sciences, Muhammadiyah University of Riau [3]. Dept. of Biology, Faculty of Mathematics and Natural Sciences, University of Riau, Pekanbaru [4]. Dept. of Agrotechnology, Faculty of Agriculture, University of Riau, Pekanbaru [5]. Faculty of Pharmacy, Andalas University, Padang
29	16	Potency of <i>Macaranga hullettii</i> King ex Hook f. Leaves as an Anti-caries Agent	Eva Marlina* <sup>[1,2]</sup> , Ritbey Ruga <sup>[1,2]</sup> , Rita Hairani <sup>[1,2]</sup> , Winni Astuti <sup>[1,2]</sup>  [1]. Department of Chemistry, Faculty of Mathematics and Natural Science, Mulawarman University, Samarinda, East Kalimantan, Indonesia [2]. Research Center for Medicines and Cosmetic from Tropical Rainforest Resources, Mulawarman University, Samarinda, East Kalimantan, Indonesia
72	17	The Optimum Condition of Lipase of Endophytic Bacteria from <i>Macaranga hullettii</i> King ex Hook f.	Winni Astuti* <sup>[1,2]</sup> , Nelly Marlina <sup>[1]</sup> , Eva Marlina <sup>[2]</sup> , Rudi Kartika <sup>[1]</sup>  [1]. Dept. of Chemistry, Faculty of Mathematics and Natural Science, Mulawarman University, Samarinda [2]. Research Center for Medicine and Cosmetics from Tropical Rainforest Resources, Mulawarman University, Samarinda, East Kalimantan, Indonesia
221	18	Optimisation of Molecularly Imprinting Polymers beta-Sitosterol of Precipitation Polymerisation Method Results as Adsorbent	St. Fauziah* <sup>[1]</sup> , Andi Irwan Gunawan <sup>[1]</sup> , Nunuk Hariani Soekamto <sup>[1]</sup> , Prastawa Budi <sup>[1]</sup> , Paulina Taba <sup>[1]</sup> , Ajuk Sapar <sup>[2]</sup>  [1] Department of Chemistry, Faculty of Mathematics and Natural Sciences, University of Hasanuddin, Makassar, Indonesia [2] Department of Chemistry, Faculty of Mathematics and Natural Sciences, University of Tanjungpura, Pontianak, Indonesia
148	19	Synthesis of Biodiesel from Waste Vegetable Oil	Edwin Permana* <sup>[1]</sup> , M. Naswir <sup>[2]</sup> , Meyly Ekawati <sup>[2]</sup> , Haikal <sup>[2]</sup> , SD Sumbogo Murti <sup>[3]</sup>  [1]. Dept. of Industrial Chemistry, Faculty of Science and Technology, Jambi University, Indonesia [2] Dept. of Chemistry, Faculty of Science and Technology, Jambi University, Indonesia [3] Agency for the Assessment and Application of Technology (BPPT), Tangerang Selatan, Indonesia
149	20	Synthesis of Bioplastics from Starch of <i>Dioscorea hispida</i> as	Edwin Permana* <sup>[1]</sup> , Diah Riski Gusti <sup>[1]</sup> , Mardian Peslinof <sup>[2]</sup> , Indra Lasmana Tarigan <sup>[3]</sup>

		Matrix Biocomposites and Palm Fronds (Cellulose) as Fillers	[1] Dept. of Industrial Chemistry, Faculty of Science and Technology, Jambi University, Indonesia [2] Dept. of Physics, Faculty of Science and Technology, Jambi University, Indonesia [3] Dept. of Chemistry, Faculty of Science and Technology, Jambi University, Indonesia
64	21	Synthesis of 5-isopropyl-2,3-dimethylhydroquinone and The Solubility Analysis in 1-Octanol/Water	Alma Miranda <sup>[1]</sup> , Moh. Farid Rahman <sup>[1]</sup> , Suratmo <sup>[1]</sup> , Siti Mariyah Ulfa* <sup>[1]</sup> [1]. Dept. of Chemistry, Brawijaya University, Malang
183	22	Adsorption-Photocatalytic Degradation of Methyl Orange on TiO <sub>2</sub> /AC Composite Material	Anggun Lila <sup>[2]</sup> , Osi Arutanti[*1] [1] Research Center for Chemistry, Indonesian Institute of Sciences, Serpong, Tangerang Indonesia [2]. Department of Chemistry, Faculty of Mathematics and Natural Sciences, State University of Semarang, Semarang, Indonesia
121	23	Electronic Transfer of TiO <sub>2</sub> and Graphene Interaction by Density Functional Methods	Darmin <sup>[1]</sup> , Erwin <sup>[1]</sup> , Rahmat Gunawan* <sup>[1]</sup> [1]. Dept. of Chemistry, Mulawarman University, Samarinda, Indonesia
124	24	Electron Transfer Study of Cyanidine Molecule on TiO <sub>2</sub> Surface. A Density Functional Theory Investigations	Muhammad Teguh Pratama <sup>[1]</sup> , RR Dirgarini JNS <sup>[1]</sup> , Rahmat Gunawan* <sup>[1]</sup> [1]. Dept. of Chemistry, Mulawarman University, Samarinda, Indonesia
49	25	Experimental and Theoretical Study of Pinostrobin as Copper Corrosion Inhibitor at 1 M H <sub>2</sub> SO <sub>4</sub> Medium	Saprizal Hadisaputra* <sup>[1]</sup> , Agus Abhi Purwoko <sup>[1]</sup> , Sapri Hamdiani <sup>[2]</sup> , Rosita Wati <sup>[2]</sup> , Dina Asnawati <sup>[2]</sup> , Yuniar Ponco Prananto <sup>[3]</sup> [1] Chemistry Education Division, Faculty of Teacher Training and Science Education, University of Mataram, Mataram [2] Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, University of Mataram, Mataram [3] Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, Brawijaya University, Malang
224	26	Optical and Electrical Properties of Au-Ag Nanoalloys Synthesized through Photochemical Reduction using Femtosecond Laser	Affi N. Hidayah* <sup>[1]</sup> , Y. Herbani <sup>[1]</sup> [1]. Research Center for Physics, Indonesian Institute of Sciences, Tangerang Selatan, Banten, Indonesia
205	27	Preliminary Study of Black Glutinous Rice Husk Activated Charcoal by Infrared Spectroscopy	Novita Rosyida <sup>[1]</sup> , Layta Dinira* <sup>[2]</sup> , Eka Ratri Noor Wulandari <sup>[1]</sup> [1] Vocational Education Program, Brawijaya University, Malang [2] Department of Chemistry, Faculty of Science, Brawijaya University, Malang

25	28	The Mechanically Extraction Process of Gambier ( <i>Uncaria gambier</i> Roxb) Leaves from Limapuluh Kota West Sumatera And Its Antioxidant Activity	Galuh Widiyarti* <sup>[1]</sup> , Andini Sundowo <sup>[1]</sup> , Euis Filaila <sup>[1]</sup> , Joddy Arya Laksmono <sup>[1]</sup>  [1]. Research Center for Chemistry, Indonesian Institute of Sciences (LIPI), PUSPIPEK Serpong, Tangerang Selatan, Banten, Indonesia
168	29	Thermal Stability of Lining Leather with Different Pre-treatment Process	Iwan Fajar Pahlawan* <sup>[1]</sup> , Dona Rahmawati <sup>[1]</sup> , Heru Budi Susanto <sup>[2]</sup>  [1]. Center for Leather, Rubber and Plastics, Ministry of Industry, Jakarta [2]. Indonesian Footwear Industry Development Center, Ministry of Industry, Jakarta
39	30	Characteristic of The Results Optimization the Reduction Process of Saprolite Ore Composite in Tube Furnace	Angella Natalia Ghea Puspita <sup>[1]</sup> , Adji Kawigraha <sup>[1]</sup> , Nur Vita Permatasari* <sup>[1]</sup>  [1]. Center of Mineral Resource Technology (PTPSM), Agency for Assessment and Application Technology (BPPT), Serpong, Banten, Indonesia
182	31	Synthesis of 5-(4-bromobutyl)-2,3-dimethyl-1,4-benzoquinone and The Solubility in n-Octanol/Water Partition System	Nadiyah Zuhroh <sup>[1]</sup> , Siti Mariyah Ulfa* <sup>[1]</sup>  [1] Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, Brawijaya University, Malang
36	32	Anti-inflammatory Activity of Neural Tension Reducing Herbal Medicine Based on Edema Inhibition of CARR-induced Sprague Dawley Paws	Dewi Tristantini <sup>[1]</sup> , Raiska Bani Pramadhanya <sup>[1]</sup> , Aisyah Hanifah <sup>[1]</sup>  [1] Dept. of Chemical Engineering, University of Indonesia, Depok, Indonesia
219	33	Identification of Volatile Compounds in Meat and Bones Broth in Different Cattle using Solid Phase Micro Extraction-Gas Chromatography Mass Spectrometry (SPME-GCMS)	Diana Candra Dewi <sup>[1,2]</sup> , Chanif Mahdi* <sup>[1]</sup> , Hermin Sulistyarti <sup>[1]</sup> , Aulanium <sup>[1]</sup>  [1]. Department of Chemistry, Faculty of Science, Brawijaya University, Malang, Indonesia [2]. Halal Research Group, Department of Chemistry, Faculty of Science and Technology, UIN Maulana Malik Ibrahim, Malang, Indonesia
26	34	Preparation of Nanoparticles from <i>Curcuma longa</i> L. and <i>Cosmos caudatus</i> Extracts and Their In Silico Anti-cancer Activity	Anna Safitri <sup>[1,2]</sup> , Amila Safira Putri <sup>[1]</sup> , Tri Dewi Octavianity <sup>[1]</sup> , Nopi Tri Wahyudi <sup>[1]</sup>  [1]. Chemistry Department, Brawijaya University, Malang, Indonesia [2]. Research Center for Smart Molecules of Natural Genetic Resources (SMONAGENES), Brawijaya University, Malang, Indonesia
126	35	Potency of Modified Cassava Flour as Binder and Thickener in Formulation of Instant Infant Porridge Using Fortificant of Natural Folic Acid	Agustine Susilowati* <sup>[1]</sup> , Yati Maryati <sup>[1]</sup> , Aspiyanto <sup>[1]</sup>  [1]. Research Center for Chemistry, Indonesian Institute of Sciences, Kawasan Puspiptek Serpong, Tangerang Selatan, Banten
218	36	Mechanical and Thermal Properties of Nano-chitosan –	Athoillah Azadia <sup>[1]</sup> , Sugeng Supriyadi* <sup>[1]</sup>

		Reinforced Starch-based Biocomposite Films from Sago ( <i>Metroxylon sagu</i> )	[1]. Department of Mechanical Engineering, Universitas Indonesia, Depok, Indonesia
210	37	Identification of Metal Binding Sites on HSA 4K2C	Syahputra Wibowo[1,2], Sutiman B. Sumitro[2], Sri Widyarti*[2]  [1]. Doctoral Student of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University, Malang [2]. Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University, Malang
45	38	Effect of Graphene Oxide in the Ozonolysis Reaction of beta-Carotene	Aisha Bella Anindita <sup>[1]</sup> , Masruri <sup>[1]</sup> , Rachmat Triandi T <sup>[1]</sup> , Siti Mariyah Ulfa* <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
125	39	Enzymatic Esterification of Glycerol and Stearic Acid Using Immobilized Lipase in Chitosan Matrix	Sasangka Prasetyawan* <sup>[1]</sup> , Anna Roosdiana <sup>[1]</sup> , Zahza Fatika Rahma <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
162	40	Indirect Spectrophotometry Method based on the Formation of Chromium (VI)-Diphenylcarbazide Complex for Determination of Hydroquinone in Cosmetics	Puspita Mufidah Sari <sup>[1,2]</sup> , Syamaidzar <sup>[1,2]</sup> , Hermin Sulistyarti* <sup>[1,2]</sup> , Adam Wiryawan  [1]. Research Group of Low Cost and Automated Method and Instrumentation, Department of Chemistry, Brawijaya University, Malang, Indonesia [2]. Department of Chemistry, Faculty of Science, Brawijaya University, Malang, Indonesia
70	41	Critical Size and Magnetic Properties of a Nanocube Geometry of Alloy of Iron Base Ferromagnetic Materials	L. Rohman* <sup>[1]</sup> , E. Purwandari <sup>[1]</sup> , and D. Djuhana <sup>[2]</sup>  [1]. Dept. of Physics, Faculty of Mathematics and Natural Sciences, University of Jember, Indonesia [2] Dept. of Physics, Faculty of Mathematics and Natural Sciences, University of Indonesia, Indonesia
220	42	Photoluminescent Gold(I) Pyrazolate Complex for Chemosensors of Ethanol Vapors	Almira Praza Rachmadian <sup>[1,2]</sup> , Matheus Randy Prabowo <sup>[2]</sup> , Leny Yuliaty <sup>[1,2]</sup> , Hendrik O. Lintang* <sup>[1]</sup>  [1]. Department of Chemistry, Faculty of Science and Technology, Universitas Ma Chung, Malang, Indonesia [2]. Ma Chung Research Center for Photosynthetic Pigments, Universitas Ma Chung, Malang, Indonesia
57	43	Influence of Activation Time on Ibuprofen Adsorption Using Zinc Oxide from Gelatin Templating Method	Maria Ulfa* <sup>[1]</sup> , Umi Wahidatul Latifah <sup>[1]</sup>  [1]. Dept. of Chemistry Education, Faculty of Teacher Training and Education, Sebelas Maret University, Surakarta, Central Java, Indonesia
122	44	Meso Gamma Alumina Foil (MGA-Foil) For New 99Mo/99mTc Radioisotope Generator Columns	Kadarisman <sup>[1]</sup> , Endang Sarmini <sup>[1]</sup> , Herlina <sup>[1]</sup> , Sriyono <sup>[1]</sup> , Miftakul Munir <sup>[1]</sup> , Marlina <sup>[1]</sup>  [1]. Centre for Radioisotopes & Radiopharmaceuticals Technology, National Nuclear Energy Agency (BATAN), Indonesia

16	45	Phytochemical Screening and In-Vitro Antioxidant Activity of Aqueous Extracts of <i>Ruellia tuberosa</i> L.	Christine Natalia Palis <sup>[1]</sup> , Anna Roosdiana <sup>[1]</sup> , Anna Safitri <sup>[1,2]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Research Center for Smart Molecules of Natural Genetic Resources (SMONAGENES), Brawijaya University, Malang
20	46	In Silico Analysis and Molecular Docking Studies of Potential Alpha-Glucosidase Inhibitor Using Aqueous Extracts Compounds of <i>Ruellia tuberosa</i> L. (Betaine, Daidzein, and Hispidulin)	Calista Diva Eka Rahma <sup>[1]</sup> , Dewi Ratih Tirto Sari <sup>[2]</sup> , Anna Safitri <sup>[1,3]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Dept. of Biology, Brawijaya University, Malang, [3]. Research Center for Smart Molecules of Natural Genetic Resources (SMONAGENES), Brawijaya University, Malang, Indonesia
110	47	Synthesis of Cobalt (II)-Mediated Molecularly Imprinted Polymer Monolithic Column Using Ionic Liquid as a Porogen and Its Application to a Chiral Stationary Phase for Liquid Chromatography	Suci Amalia <sup>[1,2]</sup> , Nilna A. Rafika <sup>[2]</sup> , Shova A. Hardiyanti <sup>[2]</sup> , Bagas D. Pamungkas <sup>[1]</sup> , I Gede B. A. Pratama <sup>[1]</sup> , Adi D. Ashari <sup>[1]</sup> , Bhisma W. Khabibi <sup>[1]</sup> , Elvina D. Iftitah <sup>[1]</sup> , Warsito <sup>[1]</sup> , Akhmad Sabarudin <sup>[1,3]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Dept. of Chemistry, Faculty of Science and Technology, Universitas Islam Negeri Maulana Malik Ibrahim, Malang [3]. Research Center for Advanced System and Material Technology (ASMAT), Brawijaya University, Malang, Indonesia
69	48	Rapid Microfluidic Paper Based Analytical Device for Blood Urea Nitrogen-Creatinine Analysis Using Colorimetric and Distance Based Detection	Reski H. Rupilu <sup>[1]</sup> , Vania D. Ariesta <sup>[1]</sup> , Eva P. Indriyani <sup>[1]</sup> , Ika W. Mahdiasanti <sup>[1]</sup> , Ulfa Andayani <sup>[1]</sup> , Akhmad Sabarudin <sup>*[1,2]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Research Center for Advanced System and Material Technology, Brawijaya University, Malang
134	49	The Dissolution of Cerium from Tin Slag through Alkaline Fusion and Acid Leaching	Kurnia Trinopiawan <sup>*[1]</sup> , Kurnia Setiawan Widana <sup>[1]</sup> , Budi Yuli Ani <sup>[1]</sup>  [1]. Center for Nuclear Minerals Technology, National Nuclear Energy Agency of Indonesia, Jakarta
91	50	A Green Method to Prepare Composite of Graphene Oxide-Manganese Oxide using a Modified of Hummer's Technique	Masruri <sup>*[1]</sup> , Marselus Jeques Gros <sup>[1]</sup> , Rachmat Triandi Tjahjanto <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang

## POSTER SESSION – DAY 2

**ROOM: AKASIA BALLROOM – DAY 1, 09.15-10.00 WIB**

ID	POSTER NO.	TITLE	AUTHORS AND INSTITUTIONS
17	01	Electrochemical Behaviour of Nickel Laterite Ores Dissolution in Sulphuric Acid	Abdul Hatta Gunawan Wibowo <sup>[1]</sup> , Arya An Ambari <sup>[1]</sup> , Faizinal Abidin <sup>[1,2]</sup> , Sri Harjanto <sup>[1]</sup>  [1]. Dept. of Metallurgical and Materials Engineering, Faculty of Engineering, Universitas Indonesia, Depok [2]. Center for Mineral Resources Development Technology, Agency for the Assessment and Application of Technology, Earth System Technology (Geotech), South Tangerang, Banten, Indonesia
217	02	Synthesis of Ni/MCM-41 Based on Silica of Lapindo Mud as a Catalyst of Palm Oil Hydrocracking	Febi Yusniyanti* <sup>[1]</sup> , Wega Trisunaryanti <sup>[2]</sup> , Akhmad Syoufian <sup>[2]</sup>  [1]. Dept. of Chemistry, Faculty of Science and Technology, State Islamic University Maulana Malik Ibrahim, Malang, Indonesia [2] Dept. of Chemistry, Faculty of Mathematics and Natural Science, Universitas Gadjah Mada, Yogyakarta, Indonesia
111	03	Effect of Water Depth and Water Flow Velocity on the Micro Structure and Mechanical Properties of Underwater Wet Welded Low Carbon Steel	Fajar Paundra <sup>[1]</sup> , Juan Anindito <sup>[1]</sup> , Nurul Muhayat <sup>[1]</sup> , Triyono <sup>[1]</sup> , Y.C.N. Saputro <sup>[2]</sup>  [1]. Dept. of Mechanical Engineering, Sebelas Maret University, Surakarta, Indonesia [2]. UPTB Solo Technopark Technical Unit on Regional Development Planning Board Surakarta, Indonesia
23	04	Design, Synthesis and Biological Activities of Quinine Derivatives as $\alpha$ -glucosidase Inhibitors	Teni Ernawati* <sup>[1]</sup> , Minarti <sup>[1]</sup> , Puspa Dewi N. Lotulung <sup>[1]</sup>  [1]. Research Center for Chemistry, Indonesian Institute of Sciences (LIPI), Indonesia
10	05	Identification and Characterization of Aqueous Extracts of <i>Ruellia tuberosa</i> L using Liquid Chromatography-High Resolution Mass Spectrometry (LC-HRMS)	Salsabila Intan Savitri <sup>[1]</sup> , Anna Roosdiana <sup>[1]</sup> , Anna Safitri* <sup>[1,2]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Research Center for Smart Molecules of Natural Genetic Resources (SMONAGENES), Brawijaya University, Malang, Indonesia
11	06	In Silico Antidiabetic Activity of Aqueous Extracts of <i>Ruellia tuberosa</i> L.	Bigram Refsilangi* <sup>[1]</sup> , Dewi Ratih Tirto Sari <sup>[2]</sup> , Anna Safitri <sup>[1,3]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Dept. of Biology, Brawijaya University, Malang [3]. Research Center for Smart Molecules of Natural Genetic Resources (SMONAGENES), Brawijaya University, Malang, Indonesia



103	07	Effect of NaCl Addition and The Incubation Time on Gallic Acid Concentration in Cabbage Fermentation using <i>Lactobacillus plantarum</i>	Viky Arina Zuhria <sup>[1]</sup> , Arie Srihardyastutie* <sup>[1]</sup> , Anna Safitri <sup>[1,2]</sup> , Sasangka Prasetyawan <sup>[1]</sup>  [1] Dept. of Chemistry, Brawijaya University, Malang [2] Research Centre for Smart Molecules of Natural Genetic Resources, Brawijaya University, Malang
104	08	A Potential of Micro/Nano-Cellulose from Pineapple Leave Isolated by Hydrolysis-Assisted Sonication	Luqi Khoiriyah Latif <sup>[1]</sup> , Masruri* <sup>[1]</sup> , Barlah Rumhayati <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
8	09	Effectiveness of Using <i>Trichoderma viride</i> as Biosorbent for Remazol Brilliant Purple in Batik Waste Water Treatment	Wiwin Dwi Febrianti <sup>[1]</sup> , Galuh Rahmaniah <sup>[1]</sup> , Anna Safitri* <sup>[1,2]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Research Centre for Smart Molecules of Natural Genetic Resources, Brawijaya University, Indonesia
33	10	Infrared Spectroscopy and X-Ray Powder Diffraction on Mineral Identification at Roasted – Acid Leached of Laterite Nickel Ores	Nur Ikhwani* <sup>[1]</sup> , Faizinal Abidin <sup>[1]</sup> , Abdul Hapid <sup>[1]</sup> , Adji Kawigraha <sup>[1]</sup>  [1]. Center for Mineral Resources Development Technology, Agency For The Assessment and Application of Technology, (BPPT), South Tangerang, Banten, Indonesia
46	11	Preparation of <i>Cyperus diffusus</i> Vahl Cellulose - Polyaniline Composite for Dye Removal	Ricky J. Burhan <sup>[1]</sup> , Aswin Falahudin <sup>[1]</sup> , Irfan Gustian <sup>[1]</sup> , Salprima Yudha S* <sup>[1]</sup>  [1]. Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Bengkulu, Indonesia
44	12	Preparation of Silver-Incorporated <i>Rhynchospora corymbosa</i> (L.) Cellulose via <i>in situ</i> Green Reduction and Its Antibacterial Study	Fitri Rosdiana <sup>[1]</sup> , Aswin Falahudin <sup>[1]</sup> , Risky Hadi Wibowo <sup>[2]</sup> , Salprima Yudha S* <sup>[1]</sup> , Irfan Gustian <sup>[1]</sup>  [1]. Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Bengkulu, Indonesia [2]. Dept. of Biology, Faculty of Mathematics and Natural Sciences, Universitas Bengkulu, Indonesia
227	13	The Effect of Acid Type in Mechanochemical Treatment of Rice Husk Ash for Concrete Application	Jaka F. Fatriansyah* <sup>[1]</sup> , S.A. Khairunnisa <sup>[1]</sup> , D. Dhaneswara <sup>[1]</sup> , M.Z. Rahmatullah <sup>[1]</sup> , B.A. Ramadhan <sup>[2]</sup>  [1]. Metallurgical and Materials Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia
191	14	Evaluation of The Stability and In Vitro Anti-inflammatory Activity of Partially Purified Bromelain Nanoemulsion	F. Fransiskus Randy <sup>[1]</sup> , Siswati Setiasih <sup>[1]</sup> , Sri Handayani <sup>[1]</sup> , Sumi Hudiyo* <sup>[1]</sup>  [1]. Dept. of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Indonesia, Depok
211	15	Protein Extract from Earthworm <i>L. rubellus</i> with High Pressure Homogenizer	Suhartono* <sup>[1]</sup> , Moersilah <sup>[1]</sup> , Erdawati <sup>[1]</sup>  [1]. Dept. of Chemistry, State University of Jakarta, Indonesia
212	16	Chitosan-Montmorillonite Composites as High-	Arif Rahman* <sup>[1]</sup> , Moersilah <sup>[1]</sup> , Edith Allanas <sup>[1]</sup> , Barkah Hani Pramesti <sup>[1]</sup>

		Performance Adsorbent for Red Congo Dyes	[1]. Dept. of Chemistry, State University of Jakarta, Indonesia
213	17	Magnetite-Montmorillonite Composites as Aqueous Co <sup>2+</sup> and Cd <sup>2+</sup> Ion Adsorbers	Moersilah <sup>[1]</sup> , Arif Rahman* <sup>[1]</sup> , Edith Allanas <sup>[1]</sup> , Rosmalia <sup>[1]</sup>  [1]. Dept. of Chemistry, State University of Jakarta, Indonesia
230	18	The Effect of Gelatin on Fabrication of Composite Film Based on Glycerol – Garut Starch	Ellya Indahyanti* <sup>[1]</sup> , Diah Mardiana <sup>[1]</sup> , Vindy T.P. Prameswari <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
201	19	The Impregnation of Glucomannan into Cellulose Acetate Membrane Through Physical and Chemical Modification	Diah Mardiana* <sup>[1]</sup> , Zubaidah Ningsih <sup>[1]</sup> , Ellya Indahyanti <sup>[1]</sup> , Ni Luh Saraswati <sup>[1]</sup> , Adi Febrianto <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
37	20	The Influence of the Solvents on Natural Colorants for Halal Meat Detection	Rurini Retnowati* <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
99	21	Toxicity and Radical Scavenger Properties of Various Extracts of Sponge <i>Clionidae</i> sp. Kangean Islands	Alyaa F. Dibha <sup>[1]</sup> , Moh. Farid Rahman* <sup>[1]</sup> , Masruri <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
254	22	Phytochemistry and Antibacterial Evaluation of <i>Elaeocarpus ganitrus</i>	Retno Indriatie <sup>[1,2]</sup> , Siti Mudaliana <sup>[1]</sup> , Febriyana Rizky Hapsari <sup>[1]</sup> , Masruri* <sup>[2]</sup>  [1]. SKPD - Dinas Kesehatan Jawa Timur, UPT Lab. Herbal Materia Medica, Batu, Indonesia [2]. Dept. of Chemistry, Brawijaya University, Malang
203	23	On the Occupancy of Carbon Dioxide Molecules of Ice XVII Structure	Irwansyah Putra Pradana <sup>[1]</sup> , Diah Mardiana <sup>[1]</sup> , Lukman Hakim* <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
170	24	Recent Trend in Mixed Matrix Membranes Based on Material of Institute Lavoisier (MIL-53(Al)) as filler for CO <sub>2</sub> Gas Separation	Galang Andreanto <sup>[1]</sup> , Witri Wahyu Lestari* <sup>[1]</sup>  [1]. Dept. of Chemistry, Sebelas Maret University, Surakarta, Indonesia
101	25	Voltammetric Determination of Paracetamol using Polyvinyl Alcohol (PVA)-Fe <sub>3</sub> O <sub>4</sub> Modified Glassy Carbon Electrode	Robiatul Andawiyah <sup>[1]</sup> , Ani Mulyasuryani* <sup>[1]</sup> , Hermin Sulistyarti <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
190	26	Preparation of Granule Phosphated-Natural Zeolite of Turen for Adsorption of Anionic Dyes	Danar Purwonugroho* <sup>[1]</sup> , Tutik Setianingsih <sup>[1]</sup> , Siti Mutrofin <sup>[1]</sup> , Dian Arlantika <sup>[1]</sup> , Silvia Rahmawati <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
163	27	Enhancement Strategies for CO <sub>2</sub> Capture in Metal-Organic Frameworks (MOFs)	Witri Wahyu Lestari* <sup>[1]</sup> , Early Al Hafizh <sup>[2]</sup>  [1]. Dept. of Chemistry, Sebelas Maret University, Surakarta, Indonesia

173	28	Reducing COD from Batik Waste Using beads TiO <sub>2</sub> -Zeolite / Chitosan and TiO <sub>2</sub> N-Zeolite / Chitosan Photocatalysts: Study of Photocatalyst Composition of Waste and Light Effects	Sri Wardhani <sup>*[1]</sup> , Danar Purwonugroho <sup>[1]</sup> , Fibrianty Wulansari <sup>[1]</sup> , Darjito <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
112	29	Membrane Polyvinyl Alcohol (PVA) - Fe <sub>3</sub> O <sub>4</sub> on Screen Printed Carbon Electrode (SPCE) for detection of Paracetamol	Ani Mulyasuryani <sup>*[1]</sup> , Waluyo Tirta Nugroho <sup>[1]</sup> , Hannisa Triesani Mandiri <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
160	30	Surface Modification on Metal Organic Frameworks (MOFs) As Drug Delivery System of Curcumin	Witri Wahyu Lestari <sup>[1]*</sup> , Amalia <sup>[2]</sup> , Moh Ali Khafidhin <sup>[3]</sup>  [1]. Dept. of Chemistry, Sebelas Maret University, Surakarta, Indonesia
200	31	Thiocyanate Doping in Gel-Growth Cobalt Oxalate Crystals	Mohammad Misbah Khunur <sup>[1]</sup> , Dini Tri Wahyuni <sup>[1]</sup> , Gigih Wahyu Kurniawan <sup>[1]</sup> , Yuniar Ponco Prananto <sup>*[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
143	32	Preparation of Nanocellulose Bioplastic with a Gradation Colour of Red and Yellow	Zulfa Durrotun Nasihin <sup>[1]</sup> , Masruri <sup>*[1]</sup> , Arie Srihardyastutie <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
55	33	Isolation of Oxalic Acid from Corn Stalk for Photoreduction of Cr(VI)	Ana Nurjanah <sup>[1]</sup> , Barlah Rumhayati <sup>*[1]</sup> , Adam Wiryawan <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
159	34	The Effect of Hydrolisis Reaction Time in Conversion of Cellulose to Nanocellulose from Pinecone Flower Waste ( <i>Pinus merkusii Jungh et de Vriese</i> )	Sri Eva Lusiana <sup>[1]</sup> , Masruri <sup>*[1]</sup> , Arie Srihardyastutie <sup>[1]</sup> , Moh Farid Rahman <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
141	35	Crystallinity of Nanocellulose Isolated from The Flower Waste of Pine Tree ( <i>Pinus merkusii</i> )	Mahrullina Mahirotul Aisiyah <sup>[1]</sup> , Masruri <sup>*[1]</sup> , Arie Srihardyastutie <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
142	36	Sonication-Assisted Pinecone Flower Cellulose Hydrolysis Using Formic Acid	'Urfa Zakiyya 'Uyunin <sup>[1]</sup> , Masruri <sup>*[1]</sup> , Arie Srihardyastutie <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
207	37	The Influence of Water Vapor – Activated Tamarind Seeds ( <i>Tamarindus indica L.</i> ) Particle Size on Adsorbent's Physical Properties	Mimi Salmawati <sup>[1]</sup> , Zubaidah Ningsih A.S. <sup>[1]</sup> , Diah Mardiana <sup>*[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
68	38	Instrumentation-free for Simultaneous Determination of BUN-Creatinine Using Microfluidic Paper-based Analytical Device	Eva P. Indriyani <sup>[1]</sup> , Vania D. Ariesta <sup>[1]</sup> , Reski H. Rupilu <sup>[1]</sup> , Yohana F. Wisang <sup>[1]</sup> , Khusnul Ilmiah <sup>[1]</sup> , Ika W. Mahdiasanti <sup>[1]</sup> , Hermin Sulistyarti <sup>[1]</sup> , A. Sabarudin <sup>*[1,2]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Research Center for Advanced System and Material Technology, Brawijaya University, Indonesia

67	39	Tuning Fork Design of Microfluidic Paper-based Analytical Device for Simultaneous Detection of Serum Creatinine and Blood Urea Nitrogen	Vania D. Ariesta <sup>[1]</sup> , Eva P. Indriyani <sup>[1]</sup> , Reski H. Rupilu <sup>[1]</sup> , Yohana F. Wisang <sup>[1]</sup> , Khusnul Ilmiah <sup>[1]</sup> , Ika W. Mahdiasanti <sup>[1]</sup> , Hermin Sulistyarti <sup>[1]</sup> , A. Sabarudin* <sup>[1,2]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Research Center for Advanced System and Material Technology, Brawijaya University, Indonesia
108	40	Preliminary Phytochemical Screening and Fluorescence Characterization of Several Medicinal Plant Extracts	Qonitah Fardiyah <sup>[1,2]</sup> , Suprpto <sup>[1]</sup> , Fredy Kurniawan* <sup>[1,3]</sup>  [1]. Instrumentation and Analytical Sciences Laboratory, Department of Chemistry, Faculty of Sciences, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia. [2]. Analytical Chemistry Laboratory, Department of Chemistry, Faculty of Mathematic and Natural Science, Brawijaya University, Malang, Indonesia. [3]. ITS Halal Center, Institute of Research and Community Service, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia.
153	41	Development of Spectrophotometric Method for Mercury Determination Based on Formation of Mercury(II)-Thiocyanate	Hermin Sulistyarti* <sup>[1,2]</sup> , Qonitah Fardiyah <sup>[1,2]</sup> , Erwin Sulisty <sup>[1,3]</sup> , Eka R. Wulandari <sup>[1,4]</sup> , Hikmanita Lisan Nashukha <sup>[1]</sup>  [1]. Research Group of Low Cost and Automated Method and Instrumentation, Dept. of Chemistry, Brawijaya University, Malang [2]. Dept. of Chemistry, Brawijaya University, Malang, [3]. Dept. of Mechanical Engineering, Brawijaya University, Malang [4]. Vocational Program, Brawijaya University, Malang
179	42	Microwave-Assisted Enzymatic Biotransformation of Oleic Acid to Speciality Esters using Lipase from <i>Candida antartica</i> recombined <i>Aspergillus oryzae</i>	Elvina Dhiaul Iftitah* <sup>[1,2]</sup> , Arie Srihardyastutie <sup>[1]</sup> , Muhammad Yanuar Ramadhan <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Institute of Essential Oils, Brawijaya University, Malang, Indonesia
130	43	Immobilization Xylanase from <i>Trichoderma viride</i> on Bentonite Ca-Alginate Matrices	Sutrisno* <sup>[1,2]</sup> , Aulanni'am <sup>[1]</sup> , Anna Roosdiana <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
243	44	Modification of Bilimbi Membrane by Impregnation Method with Calcium Carbonate	Uswatun Hasanah* <sup>[1]</sup> , Budi Kamulyan <sup>[1]</sup> , Lukman Hakim <sup>[1]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang
244	45	The Development of Synthesis Method of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Coated by Biocompatible Polymer Loaded Doxorubicin for Drug Delivery System	Ika O. Wulandari <sup>[1]</sup> , Hermin Sulistyarti <sup>[1]</sup> , Anna Safitri <sup>[1]</sup> , D.J. Djoko H. Santjojo <sup>[2,3]</sup> , Akhmad Sabarudin* <sup>[1,3]</sup>  [1]. Dept. of Chemistry, Brawijaya University, Malang [2]. Dept. of Physics, Brawijaya University, Malang [3]. Research Center for Advanced System and Material Technology, Brawijaya University, Malang, Indonesia

255	46	Effect of pH and Contact Time in the Adsorption of M(II) (M = Mn, Cu, Zn) by Chitosan-Silica Prepared using Sol-Gel Method	Darjito <sup>*[1]</sup> , M.M. Khunur <sup>[1]</sup> , D. Purwonugroho <sup>[1]</sup> , M.A. Yuliantari <sup>[1]</sup> , Z.R. Sari <sup>[1]</sup> , L.H.A.K. Suryaningrat <sup>[1]</sup> , Y.P. Prananto <sup>[1]</sup> [1]. Dept. of Chemistry, Brawijaya University, Malang