



Curriculum Vitae

MAKLUMAT ASAS



PROF. MADYA TS. DR. MOHD SHAIFUL BIN SAJAB

PENSYARAH UNIVERSITI
JABATAN KEJURUTERAAN KIMIA & PROSES
No. telefon : 0389216425
No.rasmi: UKM : 03 1234 5678

BIOGRAFI / BIOGRAPHY

Mohd Shaiful Sajib is currently serving as a senior lecturer at the Department of Chemical and Process Engineering, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia (UKM). At present, he has taken a role as Head of Sub-discipline (Smart & Sustainable Materials) at Research Center for Sustainable Process Technology (CESPRO), UKM. He graduated from UKM with his BSc (Materials Science) in 2009. He pursued his MSc and PhD (Materials Science) in 2011 and completed in 2014. His research focuses are concentrated on the development of sustainable and functionalized materials from local bioresources for water remediation and sustainable additive manufacturing.

KELAYAKAN AKADEMIK / ACADEMIC QUALIFICATION (BIDANG PENGAJIAN),(PERINGKAT),(INSTITUSI),(TAHUN)

Doktor Falsafah , UKM , 2012

Sarjana Muda , UKM , 2009

KEPAKARAN / EXPERTISE

PURE AND APPLIED SCIENCES - MATERIALS SCIENCE (Lignocellulosic Materials, Biopolymer, 3D Printing Technology, Water Remediation)

PURE AND APPLIED SCIENCES - MATERIALS SCIENCE (Lignocellulosic materials, Wastewater treatment,)

PENERBITAN TERKINI / LATEST PUBLICATION

Penerbitan Berimpak Tinggi

Wan Nazihah Liyana Wan Jusoh, Mohd Shaiful Sajab, Peer Mohamed Abdul, Hatika Kaco. (2022). Recent Advances In 3d Bioprinting: A Review Of Cellulose-based Biomaterials Ink. - *Polymers*. 1-26.

Farrah Aida Arris, Denesh Mohan, Mohd Shaiful Sajab. (2022). Facile Synthesis Of 3d Printed Tailored Electrode For 3-monochloropropane-1,2-diol (3-mcpd) Sensing. - *Micromachines*. 1-10.

Shuhaida Harun, Aqilah Mohd Tajuddin, Azuan Abdul Latif, Safa Senan Mahmud, Mohd Shaiful Sajab, Masturah Markom, Jamaliah Md Jahim. (2021). Insight Into The Deep Eutectic Solvent Pretreatment Of Oil Palm Empty Fruit Bunches: Effects Of Temperature, Empty Fruit Bunch To Solvent Ratio, And Time. - *Bioresources*. 6313-6341.

Denesh Mohan, Teong Zee Khai, Mohd Shaiful Sajab, Hatika Kaco. (2021). Well-dispersed Cellulose-graphene In 4d Printing Biopolymer. - *Materials Letters*. 1-4.

Umar Adli Amran, Kushairi Mohd Salleh, Sarani Zakaria, Rasidi Roslan, Chin Hua Chia, Sharifah Nabihah Syed Jaafar, Mohd Shaiful Sajab, Marhaini Mostapha. (2021). Production Of Rigid Polyurethane Foams Using Polyol From Liquefied Oil Palm Biomass: Variation Of Isocyanate Indexes. - *Polymers*. 1-20.

Denesh Mohan, Afifah Nabilah Bakir, Mohd Shaiful Sajab, Saiful Bahari Bakarudin, Nurul Nasuha Mansor, Rasidi Roslan, Hatika Kaco. (2021). Homogeneous Distribution Of Lignin/graphene Fillers With Enhanced Interlayer Adhesion For 3d Printing Filament. - *Polymer Composites*. 2408-2421.

Shalini Narayanan Arisht, Rozieffa Roslan, Goh Ann Gie, Safa Senan Mahmud, Mohd Shaiful Sajab, Chyi-how Lay, Shu-yii Wu, Gong-tao Ding, Nur Syakina Jamali, Jamaliah Md Jahim, Peer Mohamed Abdul. (2021). Effect Of Nano Zero-valent Iron (nzvi) On Biohydrogen Production In Anaerobic Fermentation Of Oil Palm Frond Juice Using Clostridium Butyricum Jkt37. - *Biomass And Bioenergy*. 1-12.

Denesh Mohan, Zee Khai Teong, Mohd Shaiful Sajab, Nur Hidayatul Nazirah Kamarudin And Hatika Kaco. (2021). Intact Fibrillated 3d-printed Cellulose Macromolecules Caco3 For Controlled Drug Delivery. - *Polymers*. 1-15.

Farrah Aida Arris, Vincent Tiang Soon Thai, Wan Nabilah Manan, Mohd Shaiful Sajab. (2020). A Revisit To The Formation And Mitigation Of 3-Chloropropane-1,2-diol In Palm Oil Production. - *Foods*. 1-24.

Denesh Mohan, Nur Fatin Khairullah, Yan Ping How, Mohd Shaiful Sajab, Hatika Kaco. (2020). 3d Printed Laminated Caco3-nanocellulose Films As Controlled-release 5-fluorouracil. - *Polymers*. 1-15.

Denesh Mohan, Zee Khai Teong, Afifah Nabilah Bakir, Mohd Shaiful Sajab, Hatika Kaco. (2020). Extending Cellulose-based Polymers Application In Additive Manufacturing Technology: A Review Of Recent Approaches. - *Polymers*. 1-31.

Mohd Shaiful Sajab, Jude Santanaraj, Abdul Wahab Mohammad, Hatika Kaco, Shuhaida Harun. (2019). Detoxification Of Lignocellulosic Hydrolysates By In Situ Formation Of Fe(0) Nanoparticles On Activated Carbon. - *Bioresources*. 8614-8626.

Mohd Shaiful Sajab, Denesh Mohan, Jude Santanaraj, Chin Hua Chia, Hatika Kaco, Shuhaida Harun, Nur Hidayatul Nazirah Kamarudin. (2019). Telescopic Synthesis Of Cellulose Nanofibrils With A Stable Dispersion Of Fe(0) Nanoparticles For Synergistic Removal Of 5-fluorouracil. - *Scientific Reports*. 1-11.

Jeng Yih Law, Abdul Wahab Mohammad, Zhao Kang Tee, Nadiah Khairul Zaman, Jamaliah Md Jahim, Jude Santanaraj, Mohd Shaiful Sajab. (2019). Recovery Of Succinic Acid From Fermentation Broth By Forward Osmosis Assisted Crystallization Process. - *Journal Of Membrane Science*. 139-151.

Fathirrahman Ibrahim, Denesh Mohan, Mohd Shaiful Sajab, Saiful Bahari Bakarudin, Hatika Kaco. (2019). Evaluation Of The Compatibility Of Organosolv Lignin-graphene Nanoplatelets With Photo-curable Polyurethane In Stereolithography 3d Printing. - *Polymers*. 1-12.

Kushairi Mohd Salleh, Sarani Zakaria, Mohd Shaiful Sajab, Sinyee Gan, Hatika Kaco. (2019). Superabsorbent Hydrogel From Oil Palm Empty Fruit Bunch Cellulose And Sodium Carboxymethylcellulose. - *International Journal Of Biological Macromolecules*. 50-59.

Denesh Mohan, Mohd Shaiful Sajab, Hatika Kaco, Saiful Bahari Bakarudin, Anamt Mohamed Noor. (2019). 3d Printing Of Uv-curable Polyurethane Incorporated With Surface-grafted Nanocellulose. - *Nanomaterials*. 1-15.

Kushairi Mohd Salleh, Sarani Zakaria, Mohd Shaiful Sajab, Sinyee Gan, Chin Hua Chia, Sharifah Nabihah Syed Jaafar, Umar Adli Amran. (2018). Chemically Crosslinked Hydrogel And Its Driving Force Towards Superabsorbent Behaviour. - *International Journal Of Biological Macromolecules*. .

Jude Santanaraj, Mohd Shaiful Sajab, Abdul Wahab Mohammad, Shuhaida Harun, Chin Hua Chia, Sarani Zakaria, Hatika Kaco. (2017). Enhanced Delignification Of Oil Palm Empty Fruit Bunch Fibers With In Situ Fenton-oxidation. - *Bioresources*. 5223-5235.

An Amt Mohamed Noor, Perumal Rameshkumar, Norazriena Yusoff, Huang Nay Ming, Mohd Shaiful Sajab. (2016). Microwave Synthesis Of Reduced Graphene Oxide Decorated With Silver Nanoparticles For Electrochemical Determination Of 4-nitrophenol. - *Ceramics International*. 18813-18820.

Siew Xian Chin, Siti Masrinda Tasirin, Chi Hoong Chan, Chin Hua Chia, Soon Wei Chook, Sarani Zakaria, Mohd Shaiful Sajab. (2016). Catalytic Conversion Of Empty Fruit Bunch (efb) Fibres Into Lactic Acid By Lead (ii) Ions. - *Bioresources*. 2186-2201.

Mohd Shaiful Sajab, Chin Hua Chia, Chi Hoong Chan, Sarani Zakaria, Hatika Kaco, Soon Wei Chook, Siew Xian Chin And Amt Mohamed Noor. (2016). Bifunctional Graphene Oxide-cellulose Nanofibril Aerogel Loaded With Fe(iii) For The Removal Of Cationic Dye Via Simultaneous Adsorption And Fenton Oxidation. - *Rsc Advances*. 19819-19825.

Kai Yin Chong, Chin Hua Chia, Sarani Zakaria, Mohd Shaiful Sajab, Soon Wei Chook, Poi Sim Khiew. (2015). Caco3-decorated Cellulose Aerogel For Removal Of Congo Red From Aqueous Solution. - *Cellulose*. 2683-2691.

Chi Hoong Chan, Chin Hua Chia, Sarani Zakaria, Mohd Shaiful Sajab, Siew Xian Chin. (2015). Cellulose Nanofibrils: A Rapid Adsorbent For The Removal Of Methylene Blue. - *Rsc Advances*. 18204-18212.

Hatika Kaco, Sarani Zakaria, Chin Hua Chia, Mohd Shaiful Sajab And Anis Syuhada Mohd Saidi. (2015). Characterization Of Aldehyde Crosslinked Kenaf Regenerated Cellulose Film. - *Bioresources*. 6705-6719.

Soon Wei Chook, Chin Hua Chia, Chi Hoong Chan, Siew Xian Chin, Sarani Zakaria, Mohd Shaiful Sajab, Nay Ming Huang. (2015). Porous Aerogel Nanocomposite Of Silver Nanoparticles-functionalized Cellulose Nanofibrils For Sens Detection And Catalytic Degradation Of Rhodamine B. - *Rsc Advances*. 88915-88920.

Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria And Mika Sillanp. (2014). Removal Of Organic Pollutants And Decolorization Of Bleachingeffluents From Pulp And Paper Mill By Adsorption Usingchemically Treated Oil Palm Empty Fruit Bunch Fibers. - *Bioresources*. 4517-4527.

Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria, Poi Sim Khiew. (2013). Cationic And Anionic Modifications Of Oil Palm Empty Fruit Bunch Fibers For The Removal Of Dyes From Aqueous Solutions. - *Bioresource Technology*. 571-577.

Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria, Saad Mohd Jani, Mohd Khan Ayob, Kah Leong Chee, Poi Sim Khiew, Wee Siong Chiu. (2011). Citric Acid Modified Kenaf Core Fibres For Removal Of Methylene Blue From Aqueous Solution. - *Bioresource Technology*. 7237-7243.

Penerbitan WOS

Muhammad Nor Arifin Yaakob, Rasidi Roslan, Nurjannah Salim, Siti Noor Hidayah Mustapha, Sarani Zakaria, Chin-hua Chia, Mohd Shaiful Sajab. (2021). Effect Of Catalysts On The Yield And Properties Of Lignin From Microwave-assisted Acetosolv Extraction Of Oil Palm Empty Fruit Bunch Fibres. - *Journal Of Oil Palm Research*. 74-83.

Nur Fazlinda Razali, Chin Hua Chia, Sarani Zakaria, Mohd Shaiful Sajab, Tatsuya Tobe, Miku Tsuda. (2020). Penyahwarnaan Efluen Kilang Minyak Kelapa Sawit (pome) Melalui Proses Pengoksidaan Fenton Secara Berterusan Menggunakan Limonit Sebagai Pemangkin. - *Sains Malaysiana*. 69-74.

Mohamad Jani Saad, Mohd Shaiful Sajab, Wan Nazri Wan Busu, Sufian Misran, Sarani Zakaria, Siew Xian Chin, Chin Hua Chia. (2020). Comparative Adsorption Mechanism Of Rice Straw Activated Carbon Activated With Naoh And Koh. - *Sains Malaysiana*. 2721-2734.

Mohamad Jani Saad, Chin Hua Chia, Sarani Zakaria, Mohd Shaiful Sajab, Sufian Misran, Mohammad Hariz Abdul Rahman & Siew Xian Chin. (2019). Physical And Chemical Properties Of The Rice Straw Activated Carbon Produced From Carbonization And Koh Activation Processes. - *Sains Malaysiana*. 385-391.

Mohd Shaiful Sajab, Nur Nadia Nazirah Ismail, Jude Santanaraj, Abdul Wahab Mohammad, Hassimi Abu Hassan, Chin Hua Chia, Sarani Zakaria, Anamt Mohamed Noor. (2019). Insight Observation Into Rapid Discoloration Of Batik Textile Effluent By In Situ Formations Of Zero Valent Iron. - *Sains Malaysiana*. 393-399.

Wan Nur Qurratu Ainie Wan Manan, Jude Santanaraj, Mohd Shaiful Sajab, Wan Nor Roslam Wan Isahak, Chin Hua Chia. (2018). Discoloration Of Batik Effluent By Chemically Modified Oil Palm Empty Fruit Bunch Fibers. - *Jurnal Kejuruteraan*. .

Mohd Shaiful Sajab, Wan Nurmawaddah Wan Abdul Rahman Jauhari, Chin Hua Chia, Sarani Zakaria, Hatika Kaco, An'amt Mohamed Noor. (2018). Oleophilicity And Oil-water Separation By Reduced Graphene Oxide Grafted Oil Palm Empty Fruit Bunch Fibers. - *Sains Malaysiana*. .

Nur Farahin Abdul Rahman, Shuhaida Harun, Mohd Shaiful Sajab, Saiful Irwan Zubairi, Jamaliah Md Jahim, Masturah Markom, Mohd Tusirin Mohd Nor, Mohd Amrin Abdullah, Norhafizi Hashim. (2018). Boosting Enzymatic Hydrolysis Of Pressurized Ammonium Hydroxide Pretreated Empty Fruit Bunch Using Response Surface Methodology. - *Journal Of Engineering Science And Technology*. .

Azuan Abdul Latif, Shuhaida Harun, Mohd Shaiful Sajab, Masturah Markom, Jamaliah Md Jahim. (2018). Ammonia-based Pretreatment For Lignocellulosic Biomass Conversion - An Overview. - *Journal Of Engineering Science And Technology*. .

Hatika Kaco, Khairunnisa Waznah Baharin, Sarani Zakaria, Chin Hua Chia, Mohd Shaiful Sajab, Sharifah Nabihah Syed Jaafar, Sin Yee Gan. (2017). Preparation And Characterization Of Fe₃O₄/regenerated Cellulose Membrane. - *Sains Malaysiana*. 623-628.

Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria, Mika Sillanpaa. (2017). Adsorption Of Heavy Metal Ions On Surface Of Functionalized Oil Palm Empty Fruit Bunch Fibres: Single And Binary Systems. - *Sains Malaysiana*. 157-165.

Nor Aziawati Azahari, Sarani Zakaria, Hatika Kaco, Gan Sin Yee, chin Hua Chia, Sharifah Nabihah Syed Jaafar, Mohd Shaiful Sajab. (2017). Membran Selulosa Kenaf Terjana Semula Daripada Larutan Akues Naoh/urea Yang Digumpal Menggunakan Asid Sulfurik. - *Sains Malaysiana*. 795-801.

Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria, Mika Sillanp. (2015). Fixed-bed Column Studies For The Removal Of Cationic And Anionic Dyes By Chemically Modified Oil Palm Empty Fruit Bunch Fibers: Single- And Multi-solute Systems. - *Desalination And Water Treatment*. 1372-1379.

Chin Hua Chia, Nur Fazlinda Razali, Mohd Shaiful Sajab, Sarani Zakaria, Nay Ming Huang & Hong Ngee Lim. (2013). Methylene Blue Adsorption On Graphene Oxide. - *Sains Malaysiana*. 819-826.

Mohd Shaiful Sajab, Chin-hua Chia, Sarani Zakaria, S. Mohd Jani, P.s. Khiew And W.s. Chiu. (2010). Removal Of Copper(ii) Ions From Aqueous Solution Using Alkali-treated Kenaf Core Fibres. - *Adsorption Science And Technology*. 77-386.

Penerbitan SCOPUS/ERA

Farrah Aida Arris, Denesh Mohan, Mohd Shaiful Sajab. (2022). Facile Synthesis Of 3d Printed Tailored Electrode For 3-monochloropropane-1,2-diol (3-mcpd) Sensing. - *Micromachines*. 1-10.

Wan Nazihah Liyana Wan Jusoh, Mohd Shaiful Sajab, Peer Mohamed Abdul, Hatika Kaco. (2022). Recent Advances In 3d Bioprinting: A Review Of Cellulose-based Biomaterials Ink. - *Polymers*. 1-26.

Shuhaida Harun, Aqilah Mohd Tajuddin, Azuan Abdul Latif, Safa Senan Mahmod, Mohd Shaiful Sajab, Masturah Markom, Jamaliah Md Jahim. (2021). Insight Into The Deep Eutectic Solvent Pretreatment Of Oil Palm Empty Fruit Bunches: Effects Of Temperature, Empty Fruit Bunch To Solvent Ratio, And Time. - *Bioresources*. 6313-6341.

Umar Adli Amran, Kushairi Mohd Salleh, Sarani Zakaria, Rasidi Roslan, Chin Hua Chia, Sharifah Nabihah Syed Jaafar, Mohd Shaiful Sajab, Marhaini Mostapha. (2021). Production Of Rigid Polyurethane Foams Using Polyol From Liquefied Oil Palm Biomass: Variation Of Isocyanate Indexes. - *Polymers*. 1-20.

Jannatulhawa Jasni, Nazlina Haiza Mohd Yasin, Noraini Ruslan, Che Nurul Ashikin Che Mat Noor, Shalini Narayanan Arisht, Harizah Bajunaid Hariz, Mohd Sobri Takriff And Mohd Shaiful Sajab. (2021). Strategies Of Utilising Agriculture Wastewater For Microalgae Cultivation And Its Possible Applications: A Review. - *Asm Science Journal*. 1-24.

Muhammad Nor Arifin Yaakob, Rasidi Roslan, Nurjannah Salim, Siti Noor Hidayah Mustapha, Sarani Zakaria, Chin-hua Chia, Mohd Shaiful Sajab. (2021). Effect Of Catalysts On The Yield And Properties Of Lignin From Microwave-assisted Acetosolv Extraction Of Oil Palm Empty Fruit Bunch Fibres. - *Journal Of Oil Palm Research*. 74-83.

Denesh Mohan, Teong Zee Khai, Mohd Shaiful Sajab, Hatika Kaco. (2021). Well-dispersed Cellulose-graphene In 4d Printing Biopolymer. - *Materials Letters*. 1-4.

Denesh Mohan, Mohd Shaiful Sajab, Saiful Bahari Bakarudin, Rasidi Roslan, Hatika Kaco. (2021). 3d Printed Polyurethane Reinforced Graphene Nanoplatelets. - *Materials Science Forum*. 47-52.

Denesh Mohan, Afifah Nabilah Bakir, Mohd Shaiful Sajab, Saiful Bahari Bakarudin, Nurul Nasuha Mansor, Rasidi Roslan, Hatika Kaco. (2021). Homogeneous Distribution Of Lignin/graphene Fillers With Enhanced Interlayer Adhesion For 3d Printing Filament. - *Polymer Composites*. 2408-2421.

Denesh Mohan, Zee Khai Teong, Mohd Shaiful Sajab, Nur Hidayatul Nazirah Kamarudin And Hatika Kaco. (2021). Intact Fibrillated 3d-printed Cellulose Macrofibrils Caco3 For Controlled Drug Delivery. - *Polymers*. 1-15.

Shalini Narayanan Arisht, Rozieffa Roslan, Goh Ann Gie, Safa Senan Mahmod, Mohd Shaiful Sajab, Chyi-how Lay, Shu-yii Wu, Gong-tao Ding, Nur Syakina Jamali, Jamaliah Md Jahim, Peer Mohamed Abdul. (2021). Effect Of Nano Zero-valent Iron (nzvi) On Biohydrogen Production In Anaerobic Fermentation Of Oil Palm Frond Juice Using Clostridium Butyricum Jkt37. - *Biomass And Bioenergy*. 1-12.

Mohamad Jani Saad, Mohd Shaiful Sajab, Wan Nazri Wan Busu, Sufian Misran, Sarani Zakaria, Siew Xian Chin, Chin Hua Chia. (2020). Comparative Adsorption Mechanism Of Rice Straw Activated Carbon Activated With Naoh And Koh. - *Sains Malaysiana*. 2721-2734.

Nur Fazlinda Razali, Chin Hua Chia, Sarani Zakaria, Mohd Shaiful Sajab, Tatsuya Tobe, Miku Tsuda. (2020). Penyahwarnaan Efluen Kilang Minyak Kelapa Sawit (pome) Melalui Proses Pengoksidaan Fenton Secara Berterusan Menggunakan Limonit Sebagai Pemangkin. - *Sains Malaysiana*. 69-74.

Denesh Mohan, Zee Khai Teong, Afifah Nabilah Bakir, Mohd Shaiful Sajab, Hatika Kaco. (2020). Extending Cellulose-based Polymers Application In Additive Manufacturing Technology: A Review Of Recent Approaches. - *Polymers*. 1-31.

Farah Amanina Mohd Zin, Anamt Mohamed Noor, Seong Wei Lee, Mohd Shaiful Sajab, Mohammad Khairul Azhar Abdul Razab, Nor Hakim Abdullah, Wan Mohd Faizal Wan Ishak, Khairul Nizar Syazwan Salihin Wong And Nurul Akmar Che Zaudin. (2020). Graphene Oxide Silver Cellulose Alginate For Antibacterial. - *Materials Science Forum*. 590-595.

Farrah Aida Arris, Vincent Tiang Soon Thai, Wan Nabilah Manan, Mohd Shaiful Sajab. (2020). A Revisit To The Formation And Mitigation Of 3- Chloropropane-1,2-diol In Palm Oil Production. - *Foods*. 1-24.

Denesh Mohan, Nur Fatin Khairullah, Yan Ping How, Mohd Shaiful Sajab, Hatika Kaco. (2020). 3d Printed Laminated Caco3-nanocellulose Films As Controlled-release 5-fluorouracil. - *Polymers*. 1-15.

Hatika Kaco, Abdul Aziz Md Yunus, Ahmad Amer Mukmin Mohd Radzi, Muhammad Haziq Bahtiar, Muhammad Haikal Honan, Mohd Shaiful Sajab, Sarani Zakaria. (2020). Oil Water Separation: Inauguration Of Cellulose And Chemically Modified Cellulose-rgo Via Graphene Oxide Functionalization. - *Test Engineering And Management*. 1305-1313.

Muhammad Nor Arifin Yaakob, Rasidi Roslan, Nurjannah Salim, Siti Noor Hidayah Mustapha, Sarani Zakaria, Chin-hua Chia, Mohd Shaiful Sajab, Peter Yek Nai Yuh,. (2020). Effect Of Temperature On The Yield Of Lignin Extracted Using Microwave-assisted Acetosolv From Empty Fruit Bunch Fibers. - *Materials Science Forum*. 240-244.

Denesh Mohan, Mohd Shaiful Sajab, Hatika Kaco, Saiful Bahari Bakarudin, Anamt Mohamed Noor. (2019). 3d Printing Of Uv-curable Polyurethane Incorporated With Surface-grafted Nanocellulose. - *Nanomaterials*. 1-15.

Mohd Shaiful Sajab, Jude Santanaraj, Abdul Wahab Mohammad, Hatika Kaco, Shuhaida Harun. (2019). Detoxification Of Lignocellulosic Hydrolysates By In Situ Formation Of Fe(0) Nanoparticles On Activated Carbon. - *Bioresources*. 8614-8626.

Mohd Shaiful Sajab, Denesh Mohan, Jude Santanaraj, Chin Hua Chia, Hatika Kaco, Shuhaida Harun, Nur Hidayatul Nazirah Kamarudin. (2019). Telescopic Synthesis Of Cellulose Nanofibrils With A Stable Dispersion Of Fe(0) Nanoparticles For Synergistic Removal Of 5-fluorouracil. - *Scientific Reports*. 1-11.

Mohd Shaiful Sajab, Nur Nadia Nazirah Ismail, Jude Santanaraj, Abdul Wahab Mohammad, Hassimi Abu Hassan, Chin Hua Chia, Sarani Zakaria, Anamt Mohamed Noor. (2019). Insight Observation Into Rapid Discoloration Of Batik Textile Effluent By In Situ Formations Of Zero Valent Iron. - *Sains Malaysiana*. 393-399.

Jeng Yih Law, Abdul Wahab Mohammad, Zhao Kang Tee, Nadiah Khairul Zaman, Jamaliah Md Jahim, Jude Santanaraj, Mohd Shaiful Sajab. (2019). Recovery Of Succinic Acid From Fermentation Broth By Forward Osmosis Assisted Crystallization Process. - *Journal Of Membrane Science*. 139-151.

Kushairi Mohd Salleh, Sarani Zakaria, Mohd Shaiful Sajab, Sinyee Gan, Hatika Kaco. (2019). Superabsorbent Hydrogel From Oil Palm Empty Fruit Bunch Cellulose And Sodium Carboxymethylcellulose. - *International Journal Of Biological Macromolecules*. 50-59.

Fathirrahman Ibrahim, Denesh Mohan, Mohd Shaiful Sajab, Saiful Bahari Bakarudin, Hatika Kaco. (2019). Evaluation Of The Compatibility Of Organosolv Lignin-graphene Nanoplatelets With Photo-curable Polyurethane In Stereolithography 3d Printing. - *Polymers*. 1-12.

Mohamad Jani Saad, Chin Hua Chia, Sarani Zakaria, Mohd Shaiful Sajab, Sufian Misran, Mohammad Hariz Abdul Rahman & Siew Xian Chin. (2019). Physical And Chemical Properties Of The Rice Straw Activated Carbon Produced From Carbonization And Koh Activation Processes. - *Sains Malaysiana*. 385-391.

Kushairi Mohd Salleh, Sarani Zakaria, Mohd Shaiful Sajab, Sinyee Gan, Chin Hua Chia, Sharifah Nabihah Syed Jaafar, Umar Adli Amran. (2018). Chemically Crosslinked Hydrogel And Its Driving Force Towards Superabsorbent Behaviour. - *International Journal Of Biological Macromolecules*. .

Nur Farahin Abdul Rahman, Shuhaida Harun, Mohd Shaiful Sajab, Saiful Irwan Zubairi, Jamaliah Md Jahim, Masturah Markom, Mohd Tusirin Mohd Nor, Mohd Amrin Abdullah, Norhafizi Hashim. (2018). Boosting Enzymatic Hydrolysis Of Pressurized Ammonium Hydroxide Pretreated Empty Fruit Bunch Using Response Surface Methodology. - *Journal Of Engineering Science And Technology*. .

Azuan Abdul Latif, Shuhaida Harun, Mohd Shaiful Sajab, Masturah Markom, Jamaliah Md Jahim. (2018). Ammonia-based Pretreatment For Lignocellulosic Biomass Conversion - An Overview. - *Journal Of Engineering Science And Technology*. .

Hatika Kaco, Khairunnisa Waznah Baharin, Sarani Zakaria, Chin Hua Chia, Mohd Shaiful Sajab, Sharifah Nabihah Syed Jaafar, Sin Yee Gan. (2017). Preparation And Characterization Of Fe₃O₄/regenerated Cellulose Membrane. - *Sains Malaysiana*. 623-628.

Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria, Mika Sillanpaa. (2017). Adsorption Of Heavy Metal Ions On Surface Of Functionalized Oil Palm Empty Fruit Bunch Fibres: Single And Binary Systems. - *Sains Malaysiana*. 157-165.

Nor Aziawati Azahari, Sarani Zakaria, Hatika Kaco, Gan Sin Yee, chin Hua Chia, Sharifah Nabihah Syed Jaafar, Mohd Shaiful Sajab. (2017). Membran Selulosa Kenaf Terjana Semula Daripada Larutan Akues Naoh/urea Yang Digumpal Menggunakan Asid Sulfurik. - *Sains Malaysiana*. 795-801.

Jude Santanaraj, Mohd Shaiful Sajab, Abdul Wahab Mohammad, Shuhaida Harun, Chin Hua Chia, Sarani Zakaria, Hatika Kaco. (2017). Enhanced Delignification Of Oil Palm Empty Fruit Bunch Fibers With In Situ Fenton-oxidation. - *Bioresources*. 5223-5235.

An Amt Mohamed Noor, Perumal Rameshkumar, Norazriena Yusoff, Huang Nay Ming, Mohd Shaiful Sajab. (2016). Microwave Synthesis Of Reduced Graphene Oxide Decorated With Silver Nanoparticles For Electrochemical Determination Of 4-nitrophenol. - *Ceramics International*. 18813-18820.

Mohd Sobri Takriff, Muhamad Zuhairi Zakaria, Mohd Shaiful Sajab, Yeit Haan Teow. (2016). Pre-treatments Anaerobic Palm Oil Mill Effluent (pome) For Microalgae Treatment. - *Indian Journal Of Science & Technology*. 1-8.

Siew Xian Chin, Siti Masrinda Tasirin, Chi Hoong Chan, Chin Hua Chia, Soon Wei Chook, Sarani Zakaria, Mohd Shaiful Sajab. (2016). Catalytic Conversion Of Empty Fruit Bunch (efb) Fibres Into Lactic Acid By Lead (ii) Ions. - *Bioresources*. 2186-2201.

Mohd Shaiful Sajab, Chin Hua Chia, Chi Hoong Chan, Sarani Zakaria, Hatika Kaco, Soon Wei Chook, Siew Xian Chin And Amt Mohamed Noor. (2016). Bifunctional Graphene Oxide-cellulose Nanofibril Aerogel Loaded With Fe(iii) For The Removal Of Cationic Dye Via Simultaneous Adsorption And Fenton Oxidation. - *Rsc Advances*. 19819-19825.

Kai Yin Chong, Chin Hua Chia, Sarani Zakaria, Mohd Shaiful Sajab, Soon Wei Chook, Poi Sim Khiew. (2015). Caco₃-decorated Cellulose Aerogel For Removal Of Congo Red From Aqueous Solution. - *Cellulose*. 2683-2691.

Chong K.y., Chia C.h., Zakaria S., Sajab M.s.. (2015). Vaterite Calcium Carbonate For The Adsorption Of Congo Red From Aqueous Solutions. - *Journal Of Environmental Chemical Engineering*. 2156-2161.

Hatika Kaco, Sarani Zakaria, Chin Hua Chia, Mohd Shaiful Sajab And Anis Syuhada Mohd Saidi. (2015). Characterization Of Aldehyde Crosslinked Kenaf Regenerated Cellulose Film. - *Bioresources*. 6705-6719.

Chi Hoong Chan, Chin Hua Chia, Sarani Zakaria, Mohd Shaiful Sajab, Siew Xian Chin. (2015). Cellulose Nanofibrils: A Rapid Adsorbent For The Removal Of Methylene Blue. - *Rsc Advances*. 18204-18212.

Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria, Mika Sillanp. (2015). Fixed-bed Column Studies For The Removal Of Cationic And Anionic Dyes By Chemically Modified Oil Palm Empty Fruit Bunch Fibers: Single- And Multi-solute Systems. - *Desalination And Water Treatment*. 1372-1379.

Soon Wei Chook, Chin Hua Chia, Chi Hoong Chan, Siew Xian Chin, Sarani Zakaria, Mohd Shaiful Sajab, Nay Ming Huang. (2015). Porous Aerogel Nanocomposite Of Silver Nanoparticles-functionalized Cellulose Nanofibrils For Sens Detection And Catalytic Degradation Of Rhodamine B. - *Rsc Advances*. 88915-88920.

Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria And Mika Sillanp. (2014). Removal Of Organic Pollutants And Decolorization Of Bleachingeffluents From Pulp And Paper Mill By Adsorption Usingchemically Treated Oil Palm Empty Fruit Bunch Fibers. - *Bioresources*. 4517-4527.

Kai Yin Chong, Chin Hua Chia, Sarani Zakaria, Mohd Shaiful Sajab. (2014). Vaterite Calcium Carbonate For The Adsorption Of Congo Red From Aqueous Solutions. - *Journal Of Environmental Chemical Engineering*. 2156-2161.

Fei Ling Pua, Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria, Irman Abdul Rahman, Mohd Sapuan Salit. (2013). Alkaline-treated Cocoa Pod Husk As Adsorbent For Removing Methylene Blue From Aqueous Solutions. - *Journal Of Environmental Chemical Engineering*. 460-465.

Chin Hua Chia, Nur Fazlinda Razali, Mohd Shaiful Sajab, Sarani Zakaria, Nay Ming Huang & Hong Ngee Lim. (2013). Methylene Blue Adsorption On Graphene Oxide. - *Sains Malaysiana*. 819-826.

Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria, Poi Sim Khiew. (2013). Cationic And Anionic Modifications Of Oil Palm Empty Fruit Bunch Fibers For The Removal Of Dyes From Aqueous Solutions. - *Bioresource Technology*. 571-577.

Mohd Shaiful Sajab, Chin Hua Chia, Sarani Zakaria, Saad Mohd Jani, Mohd Khan Ayob, Kah Leong Chee, Poi Sim Khiew, Wee Siong Chiu. (2011). Citric Acid Modified Kenaf Core Fibres For Removal Of Methylene Blue From Aqueous Solution. - *Bioresource Technology*. 7237-7243.

Mohd Shaiful Sajab, Chin-hua Chia, Sarani Zakaria, S. Mohd Jani, P.s. Khiew And W.s. Chiu. (2010). Removal Of Copper(ii) Ions From Aqueous Solution Using Alkali-treated Kenaf Core Fibres. - *Adsorption Science And Technology*. 77-386.

Prosiding Terindeks

Nurin Zarifah Mohd Zairullisham, Umairah Hannan Ab Hakim, Hatika Kaco, Amilin Shahida Saadon, Mohd Shaiful Sajab. (2022). Reprocessing Of 3d Printing Filaments Fragment By Hydrolysis And Recycling Into The Formation Of Bioplastic. - *3rd Symposium On Industrial Science And Technology 2021*. 1277-1281.

Farrah Aida Arris, Wan Nabilah Manan, Hatika Kaco, Ahmad Hakimi Shaffie And Mohd Shaiful Sajab. (2021). Electrochemical Characterization Of Graphite-zero-valent Iron For 3-monochloropropane-1,2-diol (3-mcpd) Detection. - *Materials Science Forum (2nd Postgraduate Symposium On Industrial Science And Technology 2020 - Sistec 2020)*. 20-25.

A.m. Noor, F.a. Mohd Zin, L.s. Wei, N.m. Huang, M.h. Abu Bakar, M.s. Sajab, M.k.a. Abdul Razab, N.h. Abdullah, And A.k. Zulhisyam. (2019). Laser Scribe Silver-reduced Graphene Oxide As Novel Bactericidal Filter. - *International Conference On X-rays And Related Techniques In Research And Industry*. 1-6.

Buku Penyelidikan

Hatika Kaco, Mohd Shaiful Sajab & Fadzidah Mohd Idris. (2021). Active Learning In Education 4.0: Students As Owners Of Learning. - . 15.

Hatika Kaco, Sarani Zakaria, Chia Chin Hua, Mohd Shaiful Sajab, Fadzidah Mohd Idris. (2019). Innovation For Sustainability And Green Technology: Degradation Of Inanimates Forms. - . 20.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria, Chia Chin Hua & Chin Siew Xian. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 22.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria & Chia Chin Hua. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 4.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria, Chia Hua Chia, Ainun Zuriyati Mohamaed@asaari & Rohaya Othman. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 18.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria, Chia Chin Hua, Chin Siew Xian & Sharifah Nurul Ain Syed Hashim. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 20.

Hatika Kaco, Sarani Zakaria, Mohd Shaiful Sajab, Chia Chin Hua, Chan Chi Hoong & Chook Soon Wei. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 48.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria & Chia Chin Hua. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 4.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria & Chia Chin Hua. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 173.

Bab Dalam Buku

Hatika Kaco, Mohd Shaiful Sajab & Fadzidah Mohd Idris. (2021). Active Learning In Education 4.0: Students As Owners Of Learning. - . 15.

Hatika Kaco, Sarani Zakaria, Chia Chin Hua, Mohd Shaiful Sajab, Fadzidah Mohd Idris. (2019). Innovation For Sustainability And Green Technology: Degradation Of Inanimates Forms. - . 20.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria & Chia Chin Hua. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 4.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria, Chia Chin Hua & Chin Siew Xian. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 22.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria, Chia Chin Hua, Chin Siew Xian & Sharifah Nurul Ain Syed Hashim. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 20.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria, Chia Hua Chia, Ainun Zuriyati Mohamaed@asaari & Rohaya Othman. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 18.

Hatika Kaco, Sarani Zakaria, Mohd Shaiful Sajab, Chia Chin Hua, Chan Chi Hoong & Chook Soon Wei. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 48.

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria & Chia Chin Hua. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 4.

Penulisan Dalam Bahasa Melayu

Hatika Kaco, Mohd Shaiful Sajab, Sarani Zakaria & Chia Chin Hua. (2018). Potensi Produk Hijau Termaju Daripada Sumber Biojisim Pertanian. - . 173.

Penerbitan Lain-lain

Nazlina Haiza Binti Mohd Yasin;herryawan Ryadi Bin Eziwar Dyari;mohd Shaiful Bin Sajab. (2022). Formulation Of Inert Microalgae Enriched-live Prey Zooplankton For Prawn Post-larvae Feed.. - . .

Sarani Bt. Zakaria;irman Bin Abdul Rahman;sharifah Nabihah Binti Syed Jaafar;chia Chin Hua;mohd Shaiful Bin Sajab;gan Sin Yee. (2022). Chemical Modification Of Cellulose With Edta Via Microwave Assisted And Gamma Irradiation Technique. - . .

Mohd Shaiful Sajab. (2021). Polimer Boleh Biosot: Peluang Menutup Ruang Pencemaran Plastik. - *Majalahsains.com*. 1.

Shuhaida Binti Harun Nor Yuliana Binti Yuhana, Jamaliah Binti Md Jahim, Wan Nor Roslam Bin Wan Ishak, Mohd Shaiful Sajab. (2021). Role Of Ammonia And Pretreatment Conditioning Processes On Inhibitor Production: Inhibitory Effect And Tolerance In Downstream Processes. - . 1-11.

Mohd Shaiful Bin Sajab;mohd Sobri Bin Takriff;darman Bin Nordin. (2021). Electrochemical Behaviors Of 3-chloropropane-1,2-diol At Boron-doped Graphene Presence In Palm Oil-water Emulsion . - . .

- Mohd Shaiful Bin Sajab; sarani Bt. Zakaria; shuhaida Binti Harun; chia Chin Hua; peer Mohamed. (2021). A Facile Method For Fractionation Lignin And Nanocellulose From Lignocellulosic Biomass As Compatible Reinforced Stereolithography Materials. - .
- Nur Hidayatul Nazirah Binti Kamarudin; mohd Shaiful Bin Sajab; noorashikin Binti Md Saleh. (2021). Enhancing The Mesoporous Silica Nanoparticles By Modification With Poly(methylacrylic Acid)(pmaa) For A Greater Stimuli Responsive Anti-cancer Drug Carrier. - . .
- Penerokaan Polimer Berasaskan Bio Sebagai Bahan Dalam Teknologi Pembuatan Bahan Tambahan. (2021). Penerokaan Polimer Berasaskan Bio Sebagai Bahan Dalam Teknologi Pembuatan Bahan Tambahan. - *Majalahsains.com*. 1.
- Teow Yeit Haan; abdul Wahab Bin Mohammad; mohd Cairul Iqbal Bin Mohd Amin; ng Shiow Fern; mohd Shaiful Bin Sajab; nur Hidayatul Nazirah Binti Kamarudin. (2021). Green Synthesis Of Thermo-responsive Bio-cellulose Hydrogel Facial Mask From Oil Palm Empty Fruit Bunch. - . .
- Mohd Shaiful Bin Sajab; chia Chin Hua; nur Hidayatul Nazirah Binti Kamarudin. (2021). Telescoping Synthesis Of Cellulose-calcium Carbonate As Hybrid Nanocrystals For Ph Responsive-controlled Uptake And Release Application. - . .
- Jamaliah Binti Md Jahim; mohd Sobri Bin Takriff; shuhaida Binti Harun; mohd Shaiful Bin Sajab; peer Mohamed; hemavathi Silvamany. (2020). Towards An Alternative Extraction Process For Palm Oil: Role Of Cell Wall Degrading Enzymes In Enhancing Oil Recovery During Aqueous Extraction Of Palm Oil. - . .
- Sarani Zakaria, Chia Chin Hua, Sharifah Nabihah Syed Jaafar, Mohd Shaiful Sajab, Nik Lukman Nik Ibrahim, Mazlan Mohd Tahir, Azimin Tazilan. (2020). Improving Malaysian He Knowledge Towards A Wood And Furniture Industry 4.0. - . 1-36.
- Denesh Mohan, Mohd Shaiful Sajab. (2020). Cellulose-based Polymers In Additive Manufacturing. - *Encyclopedia*. 1-10.
- Ang Wei Lun; abdul Wahab Bin Mohammad; rosiah Binti Rohani; teow Yeit Haan; mohd Shaiful Bin Sajab. (2019). Palm Oil Mill Biogas Reactor Effluent Concentration For Production Of Organic Fertilizer And Water Reclamation Using An Integrated Forward Osmosis Membrane Process. - . .
- Mohd Shaiful Bin Sajab; abdul Wahab Bin Mohammad; mohd Sobri Bin Takriff; sarani Bt. Zakaria; chia Chin Hua. (2019). Preparation Of Bifunctional Graphene Oxide-fe(iii) For Removal Of Lignin And Phenolic Derivatives In Cyclic Of Adsorption And Fenton-oxidation System. - . 1-6.
- Chia Chin Hua; neoh Hui Min; mohd Shaiful Bin Sajab; chin Siew Xian. (2018). Cellulose Nanocomposite Containing Silver Nanoparticles And Graphene Oxide For Environmental Remediation. - . .
- Jude Santanaraj, Mohd Shaiful Sajab, Abdul Wahab Mohammad & Peer Abdul Mohammad. (2018). Integration Of Fenton Technology In Biohydrogen Production From Oil Palm Biomass. - *3rd International Conference On New Energy And Future Energy Systems (nefes 2018)*. .

PROJEK PENYELIDIKAN / RESEARCH PROJECT (TAJUK),(PERANAN),(TEMPOH),(TAHAP)

Aktif

TUNABLE BIO-POLY(BUTYLENE SUCCINATE) NANOCOMPOSITE FOR SUSTAINABLE ADDITIVE MANUFACTURING , Ketua Projek , 15-11-2021 sehingga 14-11-2023 , Kebangsaan

Conductive 4D printing bio-based filament for electrochemical sensing device on the presence of food contaminants , Ketua Projek , 01-09-2021 sehingga 31-08-2023 , Kebangsaan

Miscible biopolymer blends of polybutylene succinate-nanocellulose/lignin for interlayer and direct extrusion 3D printing , Ketua Projek , 01-09-2021 sehingga 31-08-2022 , Universiti

A new integrated liquid printing-electrospinning for the tunable structures of nanoscale 3D printed biopolymer , Ketua Projek , 01-08-2020 sehingga 31-01-2023 , Universiti

Nanocellulose-reinforced photocatalytic thin films for antimicrobial surface coating [Tajuk Program: Nanocelluloses from sustainable algae feedstock for groundbreaking applications in supplying clean and sanitized water for community] , Ketua Projek , 15-02-2019 sehingga 14-11-2022 , Kebangsaan

Menghubungkan Komuniti dan Universiti dalam Memelihara Biodiversiti dan Mempromosi Kehidupan Lestari , Penyelidik Bersama , 01-04-2022 sehingga 31-08-2022 , Kebangsaan

Pendidikan Perubahan Iklim: Ketahanan dan Peranan Teknologi Pintar , Penyelidik Bersama , 01-04-2022 sehingga 31-08-2022 , Kebangsaan

Pembangunan sistem pengedaran pintar bagi buah kelapa sawit segar , Penyelidik Bersama , 01-01-2022 sehingga 31-12-2022 , Universiti

Exposition of an In-Situ Reductant for Resource-efficient Fractionation of Sago Bark in Horizontal Alkaline Oxidation Fractionator , Penyelidik Bersama , 07-09-2021 sehingga 06-09-2024 , Kebangsaan

Systematic investigation of physicochemical and antimicrobial behavior of silver decorated graphene oxide embedded membrane feed spacer , Penyelidik Bersama , 07-09-2021 sehingga 06-09-2023 , Kebangsaan

A new three-dimensional (3D) printing of an in situ grown MOF hydrogel for sensing volatile organic compounds (VOCs) , Penyelidik Bersama , 01-09-2021 sehingga 31-08-2023 , Universiti

Water recovery from domestic wastewater using hybrid biofilm carriers reactor , Penyelidik Bersama , 01-09-2021 sehingga 31-08-2023 , Universiti

Improving Malaysian HE Knowledge towards a Wood and Furniture Industry 4.0 - MAKING 4.0 , Penyelidik Bersama , 01-09-2020 sehingga 14-08-2022 , Antarabangsa

Biodegradable Growing Media with Slow Release Fertilizer and Free Watering System , Penyelidik Bersama , 01-12-2019 sehingga 31-08-2023 , Kebangsaan

Development of a Compact Integrated Solution System for Sustainable Wastewater Reclamation from Malaysian Industries , Penyelidik Bersama , 01-12-2018 sehingga 26-03-2023 , Kebangsaan

Improving Malaysian HE Knowledge towards a Wood and Furniture Industry 4.0 - MAKING4.0 , Penyelidik Bersama , 15-11-2018 sehingga 14-08-2022 , Antarabangsa

Teknologi Sisa Sifar , Penyelidik Bersama , 01-02-2011 sehingga 31-12-2023 , Kebangsaan

Tamat

Translational Education through Industrial Design and Prototyping Facility , Ketua Projek , 01-05-2021 sehingga 30-04-2022 , Universiti

Electrochemical behaviors of 3-chloropropane-1,2-diol at boron-doped graphene presence in palm oil-water emulsion , Ketua Projek , 01-01-2019 sehingga 31-03-2021 , Kebangsaan

A facile method for fractionation lignin and nanocellulose from lignocellulosic biomass as compatible reinforced stereolithography materials , Ketua Projek , 15-11-2018 sehingga 14-05-2021 , Kebangsaan

Telescoping synthesis of cellulose-calcium carbonate as hybrid nanocrystals for pH responsive-controlled uptake and release application , Ketua Projek , 16-10-2017 sehingga 15-07-2020 , Universiti

Preparation of bifunctional graphene oxide-Fe(III) for removal of lignin and phenolic derivatives in cyclic of adsorption and Fenton-oxidation system , Ketua Projek , 01-05-2016 sehingga 31-10-2018 , Antarabangsa

Block Copolymer-Polyesters Nanoparticles Derived from Palm Oil For Effective Drug Delivery Carriers , Penyelidik Bersama , 01-10-2019 sehingga 31-03-2022 , Universiti

Chemical modification of cellulose with EDTA via microwave assisted and Gamma irradiation technique , Penyelidik Bersama , 01-01-2019 sehingga 30-09-2021 , Kebangsaan

Formulation of inert microalgae enriched-live prey zooplankton for prawn post-larvae feed. , Penyelidik Bersama , 15-11-2018 sehingga 14-11-2021 , Universiti

Enhancing the Mesoporous Silica Nanoparticles by Modification with poly(methylacrylic acid)(PMAA) for a Greater Stimuli Responsive Anti-Cancer Drug Carrier , Penyelidik Bersama , 15-08-2018 sehingga 14-02-2021 , Universiti

Green synthesis of thermo-responsive bio-cellulose hydrogel facial mask from oil palm empty fruit bunch , Penyelidik Bersama , 16-10-2017 sehingga 08-04-2021 , Universiti

TOWARDS AN ALTERNATIVE EXTRACTION PROCESS FOR PALM OIL: ROLE OF CELL WALL DEGRADING ENZYMES IN ENHANCING OIL RECOVERY DURING AQUEOUS EXTRACTION OF PALM OIL , Penyelidik Bersama , 15-08-2017 sehingga 14-02-2020 , Kebangsaan

Palm Oil Mill Biogas Reactor Effluent Concentration for Production of Organic Fertilizer and Water Reclamation using an Integrated Forward Osmosis Membrane Process , Penyelidik Bersama , 24-10-2016 sehingga 23-04-2019 , Universiti

ROLE OF AMMONIA AND PRETREATMENT CONDITIONING PROCESSES ON INHIBITOR PRODUCTION: INHIBITORY EFFECT AND TOLERANCE IN DOWNSTREAM PROCESSES , Penyelidik Bersama , 01-08-2016 sehingga 31-01-2020 , Kebangsaan

Cellulose nanocomposite containing silver nanoparticles and graphene oxide for environmental remediation , Penyelidik Bersama , 01-01-2016 sehingga 30-06-2018 , Kebangsaan

Biological Phenolic Glass Fibre Composites for Front Rear Coach , Penyelidik Bersama , 01-07-2015 sehingga 30-06-2017 , Kebangsaan

Phycoremediation of Palm Oil Mill Effluent , Penyelidik Bersama , 15-06-2015 sehingga 30-09-2016 , Universiti

Pretreatment of Biomass for Hydrogen Production , Penyelidik Bersama , 01-09-2014 sehingga 31-12-2019 , Kebangsaan

ADVANCED INTEGRATED SEPERATION TECHNOLOGIES FOR DOWNSTREAM PROCESSING OF SUGAR-BASED PRODUCTS AND FINE CHEMICAL PRECURSORS , Penyelidik Bersama , 01-01-2014 sehingga 31-12-2018 , Kebangsaan

ANUGERAH DAN PENGURUSAN / AWARD AND STEWARDSHIP (NAMA ANUGERAH/PENTADBIRAN),(INSTITUSI PENGANUGERAHAN),(TAHUN)

Anugerah UKM

Anugerah Perkhidmatan Cemerlang / Anugerah Perkhidmatan Cemerlang , 2019

PENYELIAAN PELAJAR / SUPERVISION

Pelajar Sarjana

Pembangunan Filamen Berasaskan Bio Dalam Teknologi Pembuatan Bahan Tambah(AM), SITI NORSYAFIQAH BINTI SELAMAT, Sarjana

WAN NAZIHAH LIYANA BINTI WAN JUSOH, Sarjana

SITI AISYAH SYAZWANI BINTI ZAIDI, Sarjana

PENYINGKIRAN PERENCAT BERPOTENSI DALAM PENUKARAN LIGNOSELULOSA, JUDE SANTANARAJ A/L DULASIDAS, Sarjana

RAFEEQA BT. MUHAMAD MAHIZAN, Sarjana

FATIHAH BINTI AZAMKAMAL, Sarjana

SITI NADHIRAH BINTI NORDIN, Sarjana

MEMBRAN KOMPOSIT FILEM NIPIS DENGAN PENAMBAHAN OKSIDA GRAFIN/KITOSAN UNTUK APLIKASI OSMOSIS KEDEPAN, WAN NUR SYUHADA BINTI WAN ATA, Sarjana

MODIFIKASI SILIKA BERLIANG MESO (MSN) DENGAN POLI(2- VINILPIRIDINA)(PVPDINE) DAN POLI(VINILPIROLIDONA) (PVPDNE) UNTUK TINDAK BALAS RANSANGAN TERHADAP UBAT 5-FLOROURASIL (5-FU), NUR SYAZALIYANA BINTI AZALI, Sarjana

MUHAMMAD ZIKRI AIMAN BIN ZULKIFLI, Sarjana

Kajian Tentang Kesan Hidrogen Peroksida Terhadap Fotodegradasi Racun Rumpai 2,4-D Dimentilamina, NUR AMINI SYAQIRA AWANG, Sarjana

Pelajar Doktor Falsafah

TITANIUM DIOKSIDA DAN NANO-KOMPOSITNYA DENGAN SELULOSA UNTUK PENGURAIAN PERWARNA ORGANIK MELALUI AKTIVITI FOTO-PEMANGKINAN, YANG CHIA YAN, Doktor Falsafah

PENCIRIAN SINTESIS SELULOSA TERJANA SEMULA DARIPADA GENTIAN TERAS KENAF DIBANTU DENGAN KARBON YANG DIAKTIFKAN DAN ZARAH MAGNET $\text{CoFe}_2\text{O}_4/\text{Fe}_3\text{O}_4$ UNTUK PENJERAPAN PEWARNA, SEYEDEHMARYAM MOOSAVI, Doktor Falsafah

Penyahwarnaan Metilena Biru Dan Efluen Kilang Minyak Kelapa Sawit Melalui Proses Pengoksidaan Fenton Menggunakan Limonit Sebagai Pemangkin, NUR FAZLINDA BT RAZALI, Doktor Falsafah

PENCIRIAN HIDROGEL DAN KRIOGEL YANG DIJANA DARIPADA SELULOSA TANDAN KOSONG KELAPA SAWIT DAN TERBITAN SELULOSA, KUSHAIRI BIN MOHD SALLEH, Doktor Falsafah

FARRAH AIDA BINTI ARRIS, Doktor Falsafah

Kajian bioonversi bagi buah tandan kosong (EFB) yang berlainansai zarah melalui perawatan pengembangan serat ammonia (AFEX), AZUAN BIN ABDUL LATIF, Doktor Falsafah

PENINJAUPERIKSAAN POLIMER BERASASKAN BIO DARIPADA LIGNIN DAN SELULOSA SEBAGAI BAHAN PEMBUATAN BAHAN TAMBAHAN, DENESH A/L A.MOHAN, Doktor Falsafah

Penghasilan Karbon Teraktif Daripada Sisa Padi Melalui Proses Karbonisasi dan Aktivasi Kimia Sebagai Bahan Penjerap Cecair Berwarna, MOHAMAD JANI BIN SAAD, Doktor Falsafah

APLIKASI BIOJISIM MIKROALGA PENCILAN TEMPATAN SEBAGAI SUMBER, JANNATULHAWA BINTI JASNI, Doktor Falsafah

HIDROGEL SELULOSA TERMO-RESPONSIF TERSINTESIS DARIPADA TANDAN, MAHA MOHAMMAD HUSSEIN AL-RAJABI, Doktor Falsafah

NOORAKMAR HIDAYAH BT. MOHAMED HASHINI, Doktor Falsafah

KHIDMAT SOSIAL / SOCIAL @ PUBLIC ENGAGEMENT (SUMBANGAN),(TEMPOH),(PERINGKAT)

Khidmat Luar

Synthesis and Characterization of Intercalated Zinc-Layered Hydroxide-3-(4-Hydroxyphenyl)propionate Nanohybrid for Controlled Release Formulation , 06-02-2015 sehingga 06-03-2015 , Antarabangsa

Modification of P25 Titanium Dioxide with Cobalt Oxide for Degradation of 2,4-Dichlorophenoxyacetic Acid , 31-03-2015 sehingga 28-04-2015 , Antarabangsa

Lead Adsorption Behaviors on Nanoscale Zero Valent Irons (nZVI) 1 Coupled with Rice Husk MCM-41 , 08-11-2015 sehingga 06-12-2015 , Antarabangsa

Effective adsorption of ciprofloxacin hydrochloride from aqueous solutions using metal-organic framework , 16-03-2016 sehingga 06-04-2016 , Antarabangsa

The Assessment & Application of Student's Competency in 'Land Survey, Building and Measured Drawing' Course , 04-02-2016 sehingga 12-04-2016 , Antarabangsa

Conducting Polymer Membranes Derived from Layer by Layer Formation for Various Separations , 21-04-2016 sehingga 27-01-2017 , Antarabangsa

Determination on physicochemical structural fatty acids derive using microwave assisted alkaline hydrolysis of Jatropha curcas oil , 28-10-2016 sehingga 17-11-2016 , Antarabangsa

Combating Dye Pollution using Cocoa Pod Husks: A Sustainable Approach , 07-12-2016 sehingga 07-02-2017 , Antarabangsa

Kinetic and Isotherm Properties of Formaldehyde Adsorption on Oil Palm Fiber-TiO₂ Composite Powder , 18-01-2017 sehingga 18-02-2017 , Antarabangsa

Polyethyleneimine Functionalized Graphene Aerogel with Superhigh capacity, pH Sensitivity for Adsorption and Selective Separation of Anionic Dye , 09-01-2017 sehingga 30-01-2017 , Antarabangsa

Treasurer , 25-04-2016 sehingga 25-04-2018 , Kebangsaan

Superabsorbent Hydrogel from Extracted Oil Palm Frond Waste Cellulose using Microwave Irradiation for Cadmium Ion Removal from Aqueous Solution , 08-04-2018 sehingga 29-04-2018 , Antarabangsa

Preparation and characterization of magnetic Fe₃O₄ -MOF cellulose composites as highly efficient Fenton catalysts , 17-06-2018 sehingga 01-07-2018 , Antarabangsa

Adsorptive removal of cationic dye from aqueous solution by graphene oxide/cellulose acetate aerogels , 01-04-2018 sehingga 12-04-2018 , Antarabangsa

Adsorptive removal of cationic dye from aqueous solution by graphene oxide/cellulose acetate aerogels , 03-08-2018 sehingga 17-08-2018 , Antarabangsa

Rapid Removal of Toxic Cadmium (II) via Nanocellulose derived from Palm Oil Waste: Process Optimization and Biosorption Kinetic Study , 17-07-2018 sehingga 07-08-2018 , Antarabangsa

3D printing and surface imprinting technologies for water treatment: A critical review of recent progress , 03-12-2018 sehingga 23-12-2018 , Antarabangsa

Simposium Sains dan Teknologi 2018 , 14-05-2018 sehingga 16-05-2018 , Kebangsaan

Special issue under Research Centre for Sustainable Process Technology (CESPRO) , 01-03-2018 sehingga 30-11-2018 , Antarabangsa

Verification Survey with the Private Sector for Disseminating Japanese Technologies for Wastewater Treatment System Utilizing the Natural Mineral Limonite and Kenaf , 26-06-2017 sehingga 26-08-2019 , Antarabangsa

Kajian Bancian Industri Perakayuan Negara , 14-03-2017 sehingga 31-12-2018 , Kebangsaan

Adsorption of methylene blue dye on activated carbon derived from rubberwood sawdust: Equilibrium, kinetic and thermodynamic studies , 26-10-2018 sehingga 09-11-2018 , Antarabangsa

Preliminary Study on the Synthesis of Granular Ordered Mesoporous Carbon Montmorillonite Composite Adsorbents for Removal of Water Pollutants , 31-10-2018 sehingga 14-11-2018 , Antarabangsa

Effect of molecular weight and concentration of polyvinyl alcohol (PVA) and microfibrillated cellulose of sugarcane bagasse in preparing PVA-based polymer foam , 13-02-2019 sehingga 27-02-2019 , Antarabangsa

Design of an efficient and selective adsorbent of cationic dye through activated carbon - graphene oxide nanocomposite: Study on mechanism and synergy , 08-04-2019 sehingga 29-04-2019 , Antarabangsa

Graphene/waste-newspaper cellulose composite aerogels with selective adsorption of organic dyes: Preparation, characterization and adsorption mechanism , 01-08-2019 sehingga 15-08-2019 , Antarabangsa

Graphene/waste-newspaper cellulose composite aerogels with selective adsorption of organic dyes: Preparation, characterization and adsorption mechanism , 01-10-2019 sehingga 22-10-2019 , Antarabangsa

Facile synthesis of trimethylammonium grafted cellulose foams with high capacity for selective adsorption of anionic dyes from water , 20-02-2020 sehingga 12-03-2020 , Antarabangsa

Construction of magnetic separable microcrystalline cellulose/MoS₂ composite aerogel for adsorptive removal of mercury ion (Hg²⁺) , 24-07-2020 sehingga 07-08-2020 , Antarabangsa

A comparison of the properties of cellulose from sago fronds, treated with various environmentally-friendly chemical bleaching agents, and its application as a Methylene Blue adsorbent , 22-06-2020 sehingga 07-07-2020 , Antarabangsa

Effect of stereolithography 3D printing on the properties of PEGDMA hydrogels , 09-07-2020 sehingga 16-07-2020 , Antarabangsa

Treasurer , 20-12-2019 sehingga 20-12-2020 , Kebangsaan

Malaysia Board of Technologist , 04-04-2020 sehingga 03-04-2021 , Kebangsaan

Kelestarian Plastik melalui Pencetakan 3D , 17-12-2020 sehingga 17-12-2020 , Kebangsaan

Preparation of a cellulose-based adsorbent and its removal of Disperse Red 3B dye Carbohydrate Polymers , 04-01-2021 sehingga 14-01-2021 , Antarabangsa

Classification of edible vegetable oils degradation using multivariate data analysis from electrochemical techniques , 22-02-2021 sehingga 08-03-2021 , Antarabangsa

3D printed zeolite-Y for removing heavy metals from water , 16-05-2021 sehingga 06-06-2021 , Antarabangsa

Preparation and Performance Evaluation of Duotone 3D-Printed Polyetheretherketone as Oral Prosthetic Materials , 09-05-2021 sehingga 16-05-2021 , Antarabangsa

Sustainable Development: Is It Truly Achievable? , 26-08-2021 sehingga 26-08-2021 , Kebangsaan

ACADEMIC RESEARCH ON PALM OIL SUSTAINABILITY (ARPOS) , 20-10-2021 sehingga 19-10-2022 , Kebangsaan

Malaysia Board of Technologist , 04-04-2021 sehingga 03-04-2022 , Kebangsaan

Khidmat Dalam

AHLI JAWATANKUASA PENYEDIAAN DOKUMEN SELF ASSESMENT REPORT (SAR) COPPA 2017 , 15-08-2018 sehingga 31-12-2019 , Fakulti / Institut / Pusat Perkhidmatan

Environmental Management of Wastewater Treatment – The Science, Technology, and Design , 03-05-2021 sehingga 31-12-2021 , Pusat Pengajian / Jabatan / Pusat Penyelidikan / Unit

JAWATANKUASA PENYEDIAAN DOKUMEN SEMAKAN PROGRAM SISWAZAH 2020 , 03-03-2020 sehingga 01-01-1970 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa 16th Asian Biohydrogen and Biorefinery Symposium (ABBS 2021): Navigating the Future Through Circular Bioeconomy , 01-03-2021 sehingga 31-12-2021 , Universiti

Jawatankuasa Akreditasi Program Kejuruteraan Kimia IChemE 2020 , 23-01-2020 sehingga 22-01-2022 , Universiti

Jawatankuasa Majlis Menandatangani Memorandum Perjanjian (Moa) , 21-07-2020 sehingga 21-07-2020 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Majlis Mesra Graduan JKPP 2020 , 10-08-2020 sehingga 10-08-2020 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Majlis Mesra Graduan JKPP 2021 , 15-07-2021 sehingga 31-08-2021 , Pusat Pengajian / Jabatan / Pusat Penyelidikan / Unit

Jawatankuasa Majlis Minggu Mesra Mahasiswa Sesi Akademik 2020/2021 , 17-09-2020 sehingga 06-10-2020 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Minggu Inovasi dan Kreativiti FKAB (Peringkat JKPP) , 23-05-2022 sehingga 27-05-2022 , Pusat Pengajian / Jabatan / Pusat Penyelidikan / Unit

Jawatankuasa POME To Energy Workshop , 05-04-2016 sehingga 06-04-2016 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Penilaian Pembentangan Makmal Bersepadu (iLab©) JKPP , 22-07-2021 sehingga 23-07-2021 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Penyediaan Video bagi Pembentangan Kongres dan Pertandingan Inovasi dalam Pengajaran dan Pembelajaran (KINOVASI) 2021 , 01-08-2021 sehingga 18-08-2021 , Universiti

Jawatankuasa Penyelarasan Kursus KKKF3103 Pengurusan Projek , 18-02-2019 sehingga 31-08-2020 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Penyelidikan dan Inovasi II , 10-04-2018 sehingga 09-04-2021 , Pusat Pengajian / Jabatan / Pusat Penyelidikan / Unit

Jawatankuasa Peperiksaan Lisan Bil. 06/2021 (P.JKPP) , 01-03-2021 sehingga 01-03-2021 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Peperiksaan Lisan Bil. 06/2021 (P.JKPP) , 01-03-2021 sehingga 01-03-2021 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Peperiksaan Lisan Bil. 14/2019 (P.CESPRO) , 04-04-2019 sehingga 04-04-2019 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Peperiksaan Lisan Bil. 16/2019 (M.CESPRO) , 23-09-2019 sehingga 23-09-2019 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Peperiksaan Lisan Bil. 17/2020 ((P.JKKP) , 30-11-2020 sehingga 30-11-2020 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Peperiksaan Lisan Bil. 20/2019 (M.CESPRO) , 30-09-2019 sehingga 30-09-2019 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Petugas Majlis Minggu Mesra Mahasiswa (3M) FKAB , 03-09-2019 sehingga 04-09-2019 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Sayembara Poster & Bicara Tuntas OEL , 05-01-2022 sehingga 06-01-2022 , Fakulti / Institut / Pusat Perkhidmatan

Jawatankuasa Semakan Program Kejuruteraan Kimia Tahun 2020 , 23-01-2020 sehingga 22-01-2022 , Universiti

Jawatankuasa Sustainability Challenge 2017 , 07-02-2017 sehingga 31-12-2017 , Fakulti / Institut / Pusat Perkhidmatan

Kumpulan Fokus T.E.R.A.S UKM (Kebitaraan i-MINDA) , 06-10-2021 sehingga 05-12-2024 , Fakulti / Institut / Pusat Perkhidmatan

UKM Engineering Webinar Series 2022 , 01-09-2021 sehingga 28-02-2022 , Universiti

UKM Engineering Webinar Series 2021 , 01-02-2021 sehingga 31-07-2021 , Universiti