

PENERBITAN

DISEDIAKAN OLEH: INTAN SYAFFINAZZILLA ZAINE, DR. AINORKHILAH MAHMOOD & TS.
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Penerbitan merupakan antara petunjuk prestasi utama (KPI) kecemerlangan sesuatu institusi pengajian tinggi. Bagi tahun 2020, JSG telah diamanahkan untuk memenuhi tujuh (7) KPI berkaitan penerbitan. Antaranya penerbitan di jurnal berindeks, penerbitan bersama dengan kolaborasi industri, penerbitan buku penyelidikan dengan penerbit yang diiktiraf dan penerbitan Q1 dan Q2. Jadual 1 menyenaraikan penerbitan jenis prosiding oleh staf JSG. Walaupun tidak disenaraikan sebagai KPI bagi tahun 2020, staf JSG telah menghasilkan 12 prosiding sama ada sebagai penulis utama atau penulis bersama.

Jadual 1: Penerbitan jenis prosiding

BIL	TAJUK PENERBITAN	PENULIS	NAMA PERSIDANGAN	PENGANJUR
1	Hazard Identification, Risk Assessment and Risk Control (HIRARC) at Printing Company in Pulau Pinang	Nor Aimi Binti Abdul Wahab, Marina Bt Mokhtar, Azrinawati Binti Mohd Zin, Ainnie Rahayu Binti Abdullah, Wan Zarina Binti Wan Kamaruddin	2 nd Kolokium Sains, Teknologi and Inovasi	Jabatan Sains Gunaan, UiTM Cawangan Pulau Pinang
2	Kaedah Mengakses Maklumat Keselamatan Sesuatu Bahan Kimia Dengan Lebih Cepat dan Mudah	Muhammad Firdaus Bin Othman, Noorezal Atfyinna Binti Mohammed Napiah, Sharaf Bin Ahmad, Suhaiza Binti Hasan, Marina Bt Mokhtar, Nor Aimi Binti Abdul Wahab, Mohamad Adha Bin Mohamad Idin	2 nd Kolokium Sains, Teknologi and Inovasi	Jabatan Sains Gunaan, UiTM Cawangan Pulau Pinang
3	A Review of Isolation and Identification of Bioactive Components from Murdannia Species	Nor Aziyah Binti Bakhari	9th Virtual Science, Invention, Innovation & Conference 2020	Faculty of Chemical Engineering, UiTM Cawangan Pulau Pinang
4	Biological Activities of Murdannia Species	Nor Aziyah Binti Bakhari	9th Virtual Science, Invention, Innovation & Conference 2020	Faculty of Chemical Engineering, UiTM Cawangan Pulau Pinang
5	Toxicity Effect of Beijing Grass Mediated Silver Nanoparticles in Multicellular Cell	Ainorkhilah Binti Mahmood	9th Virtual Science, Invention, Innovation & Conference 2020	Faculty of Chemical Engineering, UiTM Cawangan Pulau Pinang
6	Synthesis and Characterization of Beijing Grass Mediated Silver Nanoparticles AgNO ₃	Ainorkhilah Binti Mahmood	9th Virtual Science, Invention, Innovation & Conference 2020	Faculty of Chemical Engineering, UiTM Cawangan Pulau Pinang
7	Synthesis, Characterization, Toxicity of Silver Nanoparticles Reduced by Ethanol Extract of Beijing Grass	Ainorkhilah Binti Mahmood	9th Virtual Science, Invention, Innovation & Conference 2020	Faculty of Chemical Engineering, UiTM Cawangan Pulau Pinang
8	Modelling and Simulation of Omnidirectional Mobile Robot with Line Follower and Obstacles Avoidance	Khairul Azman Bin Ahmad, Rozan Boudville, Zakaria Bin Hussain, Nurul Izza Binti Husin	10th IEEE International Conference on Control System, Computing and Engineering	IEEE Control System Society Chapter Malaysia
9	The Potential of Black Rice Husk Ash (BRHA) in Brick Productions	Nurol Huda Binti Dahalan, Yee Hooi Min, Mohd Haris Ridzuan Ooi Bin Abdullah, Haslinda Binti Abdul Hamid	Frontiers of Composite Materials IV	Trinity College, Dublin
10	Synthesis of Porous Zinc Oxide on Silicon	Muhammad Firdaus Bin Othman, Mohd Muzafa Bin Jumidali, Mohd Bukhari Bin Md Yunus, Mohd Zaki Bin Mohd Yusoff	2 nd Kolokium Sains, Teknologi and Inovasi	Jabatan Sains Gunaan, UiTM Cawangan Pulau Pinang
11	Some Physical Properties of Baccaurea Motleyana Fruits	Mohd Haris Ridzuan Ooi Bin Abdullah, Ch'ng Pei Eng	2 nd Kolokium Sains, Teknologi and Inovasi	Jabatan Sains Gunaan, UiTM Cawangan Pulau Pinang
12	Electrical Characterization of Silicon Based MSM Photodetector	Mohd Zaki Bin Mohd Yusoff	2 nd Kolokium Sains, Teknologi and Inovasi	Jabatan Sains Gunaan, UiTM Cawangan Pulau Pinang

Kebanyakan prosiding adalah hasil anjuran UiTM Cawangan Pulau Pinang. Jadual 2 menyenaraikan penerbitan jenis jurnal oleh staf JSG. Terdapat 19 jurnal merangkumi jurnal berindeks dan jurnal tidak berindeks yang dihasilkan oleh JSG sama ada sebagai penulis utama atau penulis bersama. Antara penerbit antarabangsa yang terlibat dalam penerbitan ini adalah *IOP Publishing*, *Trans Tech Publications Ltd*, *Switzerland* dan *The World Academy of Research in Science and Engineering*.

Jadual 2: Penerbitan jenis jurnal

BIL	TAJUK PENERBITAN	PENULIS	NAMA BUKU / JURNAL	PENERBIT
1	Preparation and Characterization of MWCNTs-Chitosan Nanocomposite Membrane for Wastewater Treatment	Marina Bt Mokhtar, Intan Syaffinazzilla Binti Zaine	International Journal of Electroactive Materials	Electroactive Materials Society
2	Effects of Frequency on Supercapacitor Properties of Multi Walled Carbonnanotubes-Polypyrrole Film Prepared by Alternating Current electrophoretic Deposition Method	Nor Aimi Binti Abdul Wahab , Azmi Bin Mohamed Yusof, Mohd Zaki Bin Mohd Yusoff, Intan Syaffinazzilla Binti Zaine	Materials Research Express	IOP Publishing
3	Chemical Composition and Antiproliferative Activity of Clinacanthus nutans Extract on Human Cervical Cancer Cell Lines (HeLa)	Nor Aziyah Binti Bakhari , Che Noriah Binti Othman, Mohd Izani Bin Othman	ASM Science Journal	Academy of Sciences Malaysia
4	The Influence of Alkanolamine in the Formation of Pt Nano- and Microstructures	Ainorkhilah Binti Mahmood, Nor Aziyah Binti Bakhari	Journal of Physics: Conference Series	IOP Publishing
5	Enhancing Performance of Porous Si-Doped GaN Based MSM Photodetector Using 50 Hz ACPEC	Ainorkhilah Binti Mahmood , Alhan Farhanah Binti Abd Rahim, Rosfariza Binti Radzali	Journal of Physics: Conference Series	IOP Publishing
6	Investigation of Light Trapping Mechanism of Silicon Solar Cell Performance Utilizing Silvaco TCAD	Ainorkhilah Binti Mahmood , Alhan Farhanah Binti Abd Rahim, Rosfariza Binti Radzali, Irni Hamiza Hamzah, Aslina Abu Bakar	Journal of Physics: Conference Series	IOP Publishing
7	Structural Characterization on Different Type of Silicon Wafer on the Formation of Porous Silicon Structure	Ainorkhilah Binti Mahmood , Alhan Farhanah Binti Abd Rahim, Rosfariza Binti Radzali, Siti Hajar Mohamad Salleh	Journal of Physics: Conference Series	IOP Publishing
8	Detection of Removal of Impurities Based on Forensic DNA Profile Analysis Method: A Legal Analysis	Mohd Hapiz Bin Mahaiyadin, Roshaimizam Bin Suhaimi, Ainorkhilah Binti Mahmood , Nor Fariza Binti Ismail, Hisyam Bin Mohd Radzi	Journal of Critical Reviews	JCR
9	Pengesanan Kenyahwujudan Najis Berdasarkan Kaedah Analisis Profil DNA Forensik : Satu Analisis Hukum	Mohd Hapiz Bin Mahaiyadin, Roshaimizam Bin Suhaimi, Ainorkhilah Binti Mahmood , Nor Fariza Binti Ismail, Hisyam Bin Mohd Radzi	Jurnal Syariah	Penerbit UM
10	Penggunaan Mesin Basuh dan Dobi untuk Penyucian Pakaian Bernajis : Analisis Menurut Perspektif Fiqh dan Sains	Mohd Hapiz Bin Mahaiyadin, Roshaimizam Bin Suhaimi, Hisyam Bin Mohd Radzi, Ainorkhilah Binti Mahmood , Nor Fariza Binti Ismail	Jurnal Islam dan Masyarakat Kontemporari	Penerbit Universiti Sultan Zainal Abidin
11	Porosification Analysis on the Effect of Resistivity Dependence on N-Type Pulsed Porous Silicon	Alhan Farhanah Binti Abd Rahim, Ainorkhilah Binti Mahmood, Noorezal Atfyinna Binti Mohammed Napiah , Rosfariza Binti Radzali	Solid State Phenomena	Trans Tech Publications Ltd, Switzerland
12	Morphological, Structural and Optical Characteristics of Porous GaN Fabricated by UV-Assisted Electrochemical Etching	Alhan Farhanah Binti Abd Rahim, Rosfariza Binti Radzali, Ainorkhilah Binti Mahmood	Solid State Phenomena	Trans Tech Publications Ltd, Switzerland
13	A Brief Review of Zinc Oxide Properties	Haslinda Binti Abdul Hamid	International Journal of Electroactive Material	Electroactive Materials Society
14	Simulation of AlN Heterostructure Photodetector by using Silvaco TCAD Software	Mohd Bukhari Bin Md Yunus , Mohd Hanapia Bin Abdullah, Mohd Zaki Bin Mohd Yusoff	International Journal of Electroactive Materials	Electroactive Materials Society
15	Low Profile ZnO Growth on Si Wafer using Hydrothermal Method for Sensor Applications	Mohd Zaki Bin Mohd Yusoff	International Journal of Advanced Trends in Computer Science and Engineering	The World Academy of Research in Science and Engineering

16	Deformations of a Homogeneously Doped Al-ZnO Cantilever using Ideal Wurtzite Crystal Structure	Mohd Zaki Bin Mohd Yusoff	International Journal of Advanced Trends in Computer Science and Engineering	The World Academy of Research in Science and Engineering
17	The Etching of ZnO/Glass by Hydrogen Peroxide Solution: Surface Morphological, Structural, and Optical Properties	Mohd Zaki Bin Mohd Yusoff	International Journal of Advanced Trends in Computer Science and Engineering	The World Academy of Research in Science and Engineering
18	Effect of KOH Concentration on the Properties of Undoped Porous GaN on Sapphire Substrate Prepared by UV assisted	Mohd Zaki Bin Mohd Yusoff	International Journal of Advanced Trends in Computer Science and Engineering	The World Academy of Research in Science and Engineering
19	Penyata Peperiksaan Komprehensif (ComprESs): Ke Arah Pengurusan Peperiksaan yang Efisien Comprehensive Examination Slips (ComprESs): Towards Efficient Examination Management	Jamal Bin Othman, Wan Nur Shaziyani Bt Wan Mohd Rosly, Norshuhada Binti Samsudin, Sharifah Sarimah Binti Syed Abdullah, Noor Azizah Bt Mazeni, Muniroh Bt Hamat, Mohd Fahmi Bin Zahari, Subaiza Binti Hasan , Norziah Binti Daud, Alina Binti Md. Kassim	Jurnal Inovasi Malaysia (JURIM)	InQKA

Manakala Jadual 3 menunjukkan penerbitan jenis pelbagai merangkumi penglibatan staf JSG sebagai editor, penerbitan *research book* dan penerbitan *Chapter(s) in Book*.

Jadual 3: Penerbitan jenis pelbagai

BIL	TAJUK PENERBITAN	PENULIS	JENIS PENERBITAN	PENERBIT
1	Journal of Physics: Conference Series Vol. 1535	Rosfariza Binti Radzali, Ainorkhilah Binti Mahmood, Mohd Zaki Bin Mohd Yusoff , Alhan Farhanah Binti Abd Rahim, Lyly Nyl Binti Ismail, Mohd Muzafa Bin Jumidali, Azrinawati Binti Mohd Zin, Nor Azyiah Binti Bakhari	Editorial	IOP Publishing
2	Solid State Phenomena Vol.301	Rosfariza Binti Radzali, Ainorkhilah Binti Mahmood, Mohd Zaki Bin Mohd Yusoff , Alhan Farhanah Binti Abd Rahim, Lyly Nyl Binti Ismail, Mohd Muzafa Bin Jumidali, Azrinawati Binti Mohd Zin, Nor Azyiah Binti Bakhari	Editorial	Scientific.Net
3	Hukum Kebersihan Pakaian Bernajis Menggunakan Mesin Basuh	Mohd Hapiz Bin Mahaiyadin, Roshaimizam Bin Suhaimi, Ainorkhilah Binti Mahmood , Nor Fariza Binti Ismail, Hisyam Bin Mohd Radzi	Research Book	Jabatan Mufti Negeri Pulau Pinang
4	15 - Metal oxide for heavy metal detection and removal	Haslinda Binti Abdul Hamid	Chapter(s) in Book of Metal Oxide Powder Technologies Fundamentals, Processing Methods and Applications	Elsevier

Jadual 1 hingga Jadual 3 secara tidak langsung menunjukkan keupayaan staf JSG untuk menghasilkan pelbagai jenis penerbitan. Semoga staf JSG berterusan mengekalkan momentum penghasilan penerbitan bagi tahun 2021.