

BULETIN JSG

Buletin Jabatan Sains Gunaan,
Universiti Teknologi MARA Cawangan Pulau Pinang



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PENERBITAN JSG 2023

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Jabatan Sains Gunaan telah diberikan tujuh (7) daripada sembilan (9) sasaran di bawah *Key Performance Indicator (KPI)* yang melibatkan penerbitan untuk kampus ini. Pencapaian Penerbitaan JSG bagi tahun 2023 adalah seperti ditunjukkan dalam jadual di bawah. Pensyarah JSG perlu meningkatkan lagi penerbitan dalam prosiding berindeks Scopus dan Journal berindeks Scopus/WOS/ERA dan berkolaborasi dengan penulis lain di peringkat kebangsaan dan antarabangsa.

Sumbangan penerbitan oleh pensyarah JSG pada tahun 2023 :

Tajuk artikel	Nama konferens/ Jurnal	Penulis
MPPT Design Using PSO Technique for Photovoltaic System	2023 IEEE 3rd International Conference in Power Engineering Applications: Shaping Sustainability Through Power Engineering Innovation, ICPEA 2023	Muhammad Nur Syahid Khairi, Nor Aziyah binti Bakhari , Ahmad Asri Abd Samat, Nurnaim, Huzaimi Md Hussin, Aimi Idzwan Tajudin
Anchoring Pt-Ni Nanosponges on Graphene for Efficient Methanol Oxidation Reaction	Proceeding 3rd International Conference on Semiconductor Materials and Technology (ICoSeMT 2023)	Mahayatun Dayana Johan Ooi, Natasha Liyana Hishammudin, Ainorkhilah Mahmood , Yushamdan Yusof and Huei Ruey Ong
Sensitive and Selective Detection of Chloroform by Current-Voltage Using ZnO Nanorods Modified Electrode	Sains Malaysiana	Haslinda Abdul Hamid , Panapan Kunakornwattana, Norain Isa, Khairunisak Abdul Razak
The Effects of pH on microplastic removal by electrocoagulation process using Nickel Electrode	Malaysian Journal of Analytical Sciences	Nor Aimi Abdul Wahab , Nor Ku Nazatul Husna Mohd Jackariya, Norain Isa, Norfaezatul Alysa Othman, Vicinisvarri Inderan, Nur Fadzeelah Abu Kassim

Dual phase zirconium-based metal-organic gel (Zr-MOG) as chromium (VI) removal via photoreduction	Malaysian Journal of Chemical Engineering and Technology (MJCET)	Anis Muneerah Shaiful Bahari, Nurhaswani Alias, Siti Azlina Rosli , Nurliyana Abu Hasan Sazalli, Zainovia Lockman, Halina Misran
Kajian Fenomenologikal: Meneroka Kesan Aktiviti Sains di Luar Bilik Darjah Terhadap Pelajar Aliran Sains di Pulau Pinang	International Journal of Modern Education	Marina Mokhtar , Salmiza Salleh, Nur Jahan Ahmad

Penerbitan lain yang disumbangkan oleh pensyarah JSG sebagai Penulis Bersama:

Tajuk artikel/buku/penulisan	Nama Konferens/Jurnal/Penerbit	Nama Penulis
Formation And Stability Study Of Silver Nanoparticles Reduced By Murdania Loriformis Extract For Antibacterial Applications	Malaysian Journal of Analytical Sciences	Norain Isa, Nazatul Nabila Mohamad, Ainorkhilah Mahmood , Nor Aziyah Bakhari , Marlina Mohd Mydin and Norhafiza Mohd Arshad.
IoT Based Domestic Water Piping Leakage Monitoring and Detection System	Proceeding, 2023 IEEE 13th International Conference on Control System, Computing and Engineering (ICCSCE)	Rozan Boudville Khairul Azman Bin Ahmad, Saiful Zaimy Bin Yahaya, Nurul Izza Husin
Study on the effect of 65 nm NMOS transistor using SILVACO TCAD	Materials Today: Proceeding	Azira Ahmad Tarmizi, Alhan Farhanah Abd Rahim, Nurul Syuhadah Mohd Razali, Rosfariza Radzali, Ainorkhilah Mahmood , Irni Hamiza Hamzah
Mitragyna Speciosa Dye Sensitiser as the Light Harvesting Molecules for Dye-Sensitised Solar Cells	Jurnal Teknologi	Azlina binti ahmad khan, Mohamad Hafiz bin Mamat, Zainal Hisham bin Che Soh, Mohamad Faizal bin Abd Rahman, Nor Azlan bin Othman, Marina bt Mokhtar , Syarifah Adilah binti Mohamed Yusoff, Mohd Hanapiah bin Abdullah
Deformed Shape And Ductility of Remodeled Reinforced Concrete Heritage Building In Pulau Pinang Subjected To Moderate Seismic Excitation	Proceeding of AWAM International Conference on Civil Engineering	Kay Dora Abd Ghani, Mohd Ikmal Fazlan Rosli, Ainorkhilah Mahmood , Nur Maizatul Azra Mukhtar & Mohd Subri Tahir

Tajuk artikel/buku/penulisan	Nama Konferens/Jurnal/Penerbit	Nama Penulis
Gallium Nitride Depth Porosity Using Image Processing Method	2023 IEEE 13th Symposium on Computer Applications & Industrial Electronics (ISCAIE)	Normasni Ad Fauzi, Iza Sazanita Isa, Siti Mariyam Isa, Asrulnizam Abd Manaf, Alhan Farhanah Abd Rahim, Ainorkhilah Mahmood , Ida Rahayu Mohamed Noordin
Effect of Capping Agent on the Shape and Catalytic Activity of PtPd Bimetallic Alloy Nanostructures	Journal of Metastable and Nanocrystalline Materials	Mahayatun Dayana Johan Ooi, Nurshahzleen Mohd Yusaini, Ainorkhilah Mahmood, Noorezal Atfyinna Mohammed Napiah , Yushamdan Yusof
The Effect of Gate Geometric Effect and Polysilicon Doping on the Performance of Scaled nMOS	ESTEEM Academic Journal	M. L. N. H. Kamarudin, A. F. Abd Rahim, N. S. Mohd Razali, R. Radzali, Ainorkhilah Mahmood , I. H Hamzah, M. Idris, and M. F. Packer Mohamed
Study of Strained-SiGe Channel P-MOSFET Using Silvaco TCAD: Impact of Channel Thickness	Key Engineering Materials	Siti NorFarah Nadia Mohd Salleh, Alhan Farhanah Abd Rahim, Nurul Syuhadah Mohd Razali, Rosfariza Radzali, Ainorkhilah Mahmood , Irni Hamiza Hamzah
Study of Porous III-V Surface Structure Via Etching Process: Effect of Pore Depth	Key Engineering Materials	Mohamad Rafiudin Ramle, Rosfariza Radzali, Alhan Farhanah Abd Rahim, Ainorkhilah Mahmood , Aslina Abu Bakar, Anis Nabilah Mohd Daud, Mohd Hanapiah Abdullah
The Optimal Performance of a Geopolymer Hollow Pyramidal Microwave Absorber with Triangular Slotted	Solid State Phenomena	Mohamad Faisal Asmadi, Hasnain Abdullah, Mohd Nasir Taib, Mas Izzati Fazin, Azizah Ahmad, Nazirah Mohamat Kasim, Noor Azila Ismail, Mohd Muzafa Jumidali
GaN Nanostructure MSM Photodetector Enhancement via Alternating Current Photoelectrochemical Etching	Proceeding 2nd International Invention, Innovation and Design Expo (inodex 2023)	Ainorkhilah mahmood , Nuriwaninorizaham, Rosfariza radzali, Alhan Farhanah Abd Rahim, Mahayatun Dayana Johan Ooi
Education Level and ALARA Principles in Occupational Radiation Protection	Proceeding The International Academic Conference IAC2023 (TEMIC)	Nur Maizatul Azra Mukhtar, Ainorkhilah Mahmood , Aina Nafisyah Suhaimi, Nur Fatma Husna Noor Azman, Ivy June Boniface, Azlan Safian
Sustainable Urban Poultry Farming System	Proceeding 2nd International Invention, Innovation and Design Expo (INoDEx 2023)	Nuralyafatin binti Che Hussin, Siti Nursyafiqah binti Md Isa, Muhammad Luqman Al Hakim bin Rosli, Alhan Farhanah Abd Rahim, Ainorkhilah Mahmood

Tajuk artikel/buku/penulisan	Nama Konferens/Jurnal/Penerbit	Nama Penulis
Chem-Xplorace: Racing to unlock the exciting world of chemistry	International Teaching & Learning Invention Innovation Competition (iTaLIIC 2023): eProceedings Book	Marina Mokhtar, Nurul Izza Husin, Nor Azyiah Bakhari, Azrinawati Mohd Zin, Ainnie Rahayu Abdullah
Flip Kit Free Body Diagram (FK-FBD): Physics Learning Tools	International Teaching & Learning Invention Innovation Competition (iTaLIIC 2023): eProceedings Book	Siti Azlina binti Rosli, Noorezal Atfyinna binti Mohammed Napihah, Haslinda binti Abdul Hamid, Suhaiza binti Hasan
Fundamental Chemistry: A basic workbook for beginners	Jabatan Sains Gunaan	Nor Azyiah Bakhari, Nurul Izza Husin, Marina Mokhtar, Azrinawati Mohd Zin, Ainnie Rahayu Abdullah
Fundamental of Physics 4th edition	Jabatan Sains Gunaan	Abdul Halim bin Abd Hamid, Ainorkhilah binti Mahmood, Haslinda binti Abdul Hamid, Intan Syaffinazzilla binti Zaine, Mohd Bukhari bin Md Yunus, Mohd Haris Ridzuan Ooi bin Abdullah, Mohd Muzafa bin Jumidali, Noorezal Atfyinna binti Mohammed Napihah, Sharaf bin Ahmad, Siti Azlina binti Rosli, Siti Hajar binti Khalid, Suhaiza binti Hasan

THE HEART & SOUL OF GOOD WRITING IS RESEARCH : YOU SHOULD WRITE NOT WHAT YOU KNOW BUT WHAT YOU CAN FIND OUT ABOUT

- Robert J. Sawyer