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# E-B

Environment – Behaviour  
Proceedings Journal

## *CSSR2017Malacca*

4th International Conference on Science & Social Research,  
The Pines, Malacca, Malaysia  
06-07 Dec. 2017

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# E-B

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*CSSR2017Malacca*

*“Translating Research into Impact”*

**4<sup>th</sup> International Conference on Science & Social Research  
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## **Acknowledgement**

We are most honoured to the conference organiser for giving us the opportunity to publish their conference proceeding in the E-BPJ.

Many thanks also to our more than 60 International Scientific Committee (ISC) / Editorial Board Members, represented from 16 countries worldwide, for their continuous commitment and dedication for reviewing the conference papers.

Thank you all !

### **Disclaimer**

Any opinion expressed in the articles are those of the authors and do not reflect that of the Association of Malaysian Environment-Behaviour Researchers (AMER), the Association of Behavioural Researchers on Asians (ABRA), and the Centre for Environment-Behaviour Studies (cE-Bs), Faculty of Architecture, Planning & Surveying, Universiti Teknologi MARA, Malaysia.

## About E-BPJ

### Indexing

The *E-BPJ* is currently indexed in Clarivate Analytics (WoS) and ScienceOPEN.

### Focus and Scope

The *E-BPJ* publishes double-blind peer-reviewed, original research conference papers relating to **Environment-Behaviour**, **General Psychology**, and **Quality of Life** issues affecting the Asian communities living in both the Asian and non-Asian countries. The selected papers published were presented at the multiple serial annual international conferences ([Memories](#)) held worldwide since 2010, jointly organised by the Association of Malaysian Environment-Behaviour Researchers (AMER), Association of Behavioural Researchers on Asian (ABRA), and Centre for Environment-Behaviour Studies (cE-Bs), Faculty of Architecture, Planning & Surveying, Universiti Teknologi MARA (UiTM), Malaysia

### Peer Review Process

Papers are double-blind peer-reviewed within three weeks by the Editorial Board Members represented from 16 countries. Papers are assessed based on seven criteria as follows:-

1. Topic - Relevancy; Research background; Clarity of Aim and Objectives.
2. Literature Review - Relation of research to previous studies; Issues derived from most up-to-date literature.
3. Methodology - Detailed clear description; Procedures justified; Limitations acknowledged.
4. Findings - Clearly described; Relevant findings highlighted.
5. Analysis & Discussio- Relevant findings discussed in relation to theories /issues/objectives/ literature; Considerations of implications beyond the confines of the research.
6. Conclusions & Recommendations - Retrospective evaluation of research & Contributions; Recommendations for improving the situation; Identification of new directions for further research
7. Overall - Standard of English Language (Score to be above 90%) and Similarity Index (Plagiarism) to be less than 30%, based on [Grammarly](#); Clarity of illustrations; APA style of referencing.

### Publication Frequency

Commencing 2018 the *E-BPJ* shall be published three times annually, excluding Special Issues.

### Open Access Policy

The *E-BPJ* is an international multidisciplinary Open Access Journal which adheres to the BOAI definition of open access: that users have the right to 'read, download, copy, distribute, print, search, or link to the full texts of these articles'.

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## Journal History

Proceedings of previous international conferences organised by the Association of Malaysian Environment-Behaviour Researchers (AMER) since 2010 were published and accessible online in Elsevier's *Procedia Social and Behavioural Sciences* (ISSN: 1887-0428), [www.ScienceDirect.com](http://www.ScienceDirect.com). Those proceedings have all been indexed in the former Thomson Reuter's Web of Science (WoS). The inevitable but timely birth of the Environment-Behaviour Proceedings Journal in 2016 was mainly to sustain the publication of the proceedings of forthcoming annual, serial international conferences to be organised jointly by AMER, ABRA and cE-Bs.

AicQoL conferences main theme addresses Quality of Life (QoL) issues affecting the Asian communities living in both Asian and non-Asian countries. E-B issues affecting non-Asian communities are also most welcome.

Paper contributions shall involve the following environments (though not exhaustive):- Children / Youth Environment;

Children / Youth Environment

Climatic Environment;

Commercial/Retail/Services Environment;

Communication / Social Media Environment;

Community Environment / Social Psychology;

Construction Environment;

Design & Creative Environment;

Educational / Learning Environment;

Elderly Environment;

Energy Environment;

General Psychology;

Green Environment;

Healing / Healthcare Environment;

Hospitality / Tourism Environment;

Inclusive Environment;

Landscaping Environment;

Legal Matters;

Leisure / Recreational / Sports Environment;

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Public Sector Environment,

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## **About CSSR2017**

The 4<sup>th</sup> International Conference on Science and Social Research (CSSR2017) was organized by the Institute of Research Management & Innovation (IRMI), Universiti Teknologi MARA (UiTM) with the support of UiTM Melaka as Co-organizer. The CSSR2017 was held on the 6-7 December 2017 at The Pines Hotel Melaka, Malaysia.

This conference covered multidisciplinary perspectives on Science and Social research and aimed to provide a communication platform for academicians, researchers, graduates and industry professionals.

Participants were expected to present their latest research findings, share their thoughts and discuss future developments in their research area.

## Message from Advisor, CSSR2017

Welcome to CSSR2017 !

On behalf of the organizing team, I would like to extend a warm welcome to all participants who will join and present their research findings in the 4rd International Conference on Science and Social Research, CSSR2017.

The Institute of Research Management & Innovation (IRMI) Universiti Teknologi MARA has constantly and relevantly drive the research community to achieve tremendous output. One of the continuous efforts conducted by IRMI is organizing CSSR in order to facilitate publication of research findings in high quality journals and enhance the visibility of researchers locally and internationally. The first and second CSSR were held in 2010 and 2015, respectively. Experiences gained by IRMI and good support from participants have helped the planning and execution of CSSR2017.

“Translating Research Into Impact” is the theme for CSSR2017. This is consistent with the scope and objectives of CSSR2017. CSSR2017 covers multi-disciplinary research areas from science and technology to social science and humanities. The conference track is divided into three major areas namely, Engineering, Science & Technology, Clinical & Health sciences and Arts, Humanities & Social sciences. The conference will bring together researchers, academicians, scientists and practitioners from Malaysia and abroad to present their latest research findings and share new innovative ideas, knowledge, and technologies related to these three conference topics.

CSSR opens up opportunity for researchers to to share their research outcomes, and expand their networking beyond their own specific field.

I would like to take this opportunity to express my sincere gratitude to all committee members, reviewers, International Advisory Panels, Journal Guest Editors, Journal Guest Editorial Board and IRMI staffs for their great efforts and continuous support in making this conference a success.

Hope you will get the most from this two-day conference. See you in December 2017 at The Pines Hotel Melaka, Malaysia.

Thank you.

Best wishes,

**Professor Dr. Hadariah Bahron**

Advisor CSSR2017

Assistant Vice Chancellor (Research & Innovation)

Institute of Research Management & Innovation (IRMI)

Universiti Teknologi MARA,

40450 Shah Alam Selangor Malaysia

## Message from Chairman, Organising Committee CSSR2017

We are indeed delighted to welcome you to the 4th International Conference on Science and Social Research (CSSR 2017). This year's conference which is co-organized with Universiti Teknologi MARA (UiTM) Melaka, will be for the first time held outside the Klang Valley. The venue of this year's conference was carefully selected to bring to the forefront the proud legacy of our rich culture and tradition, in historical Melaka, a UNESCO World Heritage Site.

The Conference offers a multidisciplinary platform to engage researchers, academics, industry and the community in the implementation of impactful research. In harmony with the theme "Translating Research into Impact", our Keynote Lecture 1, "Engineering Research into Solutions" by Yang Berbahagia Professor Datuk Dr. Ahmad Fauzi Ismail and Keynote Lecture 2, "Transformation of Society through Research and Education" by Associate Professor Dr. Samsilah Roslan will revolve around the influence of research on society. We are also privileged to have Yang Berbahagia Datin Paduka Ir. Dr. Siti Hamisah Tapsir, Director General of Higher Education deliver an Eminent Lecture entitled "Academia in the 4th Industrial Revolution", and launch the UiTM Research and Innovation in the Spotlight (RiSe) portal. The RiSe Portal which was initiated by the Institute of Research Management and Innovation UiTM features researchers, research achievements and news highlights, as well as links to research videos.

It is heartening to note that CSSR 2017 has attracted more than 200 submissions from local and international participants. International submissions were received from countries such as Indonesia, India, Vietnam, United Kingdom, Spain, Mexico and Brazil. External participants this year also include representatives from financial institutions and government agencies.

The success of CSSR 2017 represents the tremendous support and effort of many. A warm thank you to our distinguished speakers and participants for imparting scientific value to the Conference. My heartfelt gratitude to all members of the organising committee for their dedication and hardwork. A note of appreciation also to our generous government and industrial partners for their contributions.

We hope that CSSR 2017 will facilitate the translation of research into impact.

Best regards,

**Professor Dr Nor Ashikin Mohamed Noor Khan**  
Chairman of the Organising Committee, CSSR 2017

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## Table of Contents

Acknowledgement	<i>iv</i>
About E-BPJ	<i>v</i>
Editorial Team / International Scientific Committee	<i>vii</i>
About CSSR2017	<i>xi</i>
Message from Advisor, CSSR2017	<i>xii</i>
Message from Chairman, Organising Committee CSSR2017	<i>xiii</i>
Organizing Committee CSSR2017	<i>xiv</i>
Table of Contents	<i>xvi</i>
Message from Editor-in-Chief	<i>xvii</i>
Full Paper List	<i>xviii</i>
Authors Index	<i>277</i>



## Message from Editor-in-Chief

We are most honoured to the Institute of Research Management & Innovation (IRMI), Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia, for the opportunity given to publish our maiden Special Issue of the proceeding for CSSR2017.

Although the CSSR2017 papers were peer reviewed by the conference organiser, however, prior to being published in this Special Issue, those papers were subjected to another double-blind peer review process by the E-BPJ Editorial Team. This is to ensure the standard and quality of the amended papers published are not compromised, so as to sustain the E-BPJ being continuously indexed in the WoS.

Our gratitude to the E-BPJ Editorial Team, represented from 16 countries, for their time, effort, commitment and dedication for the successful publication of this maiden Special Issue.

Thank You.

Sincerely

**Professor Dr. Mohamed Yusoff Abbas**  
Editor-in-Chief  
Environment-Behaviour Proceedings Journal (E-BPJ)

31 May 2020

## Full Paper List

<b>Children / Youth Environment</b>	<b>1</b>
<a href="#"><u>Assessing the Quality of Overall Planning for Public Preschools at Klang Valley in Malaysia</u></a>	3-9
Mariam Felani Shaari , Sabarinah Sheikh Ahmad , Izaham Shah Ismail	
<a href="#"><u>Public Relations Strategy in the Socialization of Five-Day School Policy as Reconstruction of Indonesia Younger Generation</u></a>	11-16
Umaimah Wahid, Sidik Pramono	
<a href="#"><u>The Quality of Building as a Whole for Public Preschools at Klang Valley in Malaysia</u></a>	17-23
Mariam Felani Shaari , Sabarinah Sheikh Ahmad , Izaham Shah Ismail	
<b>Commercial / Retail / Services Environment</b>	<b>25</b>
<a href="#"><u>Berita Satu News Channel's Policy and Marketing Communication Process in Gaining Customer</u></a>	27-30
Hadiono Afdjani, Julian Andretty	
<a href="#"><u>The Impact of Board Characteristics on Firm Performance: A Post-MCCG2012 investigation</u></a>	31-37
David Ching Yat Ng, Teck Chai Lau , Fitriya Abdul Rahim, Shubatra Shanmugaretnam	
<b>Communications / Social Media Environment</b>	<b>39</b>
<a href="#"><u>Cyber Public Relations for Building Image Restoration of President of Indonesia Joko Widodo Based on Blasphemy Case of Jakarta Governor Candidate Basuki Tjahaja Purnama (Ahok)</u></a>	41-46
Umaimah Wahid, Arif Budiwinarto	
<a href="#"><u>The Strategy of Drama Series "Lonceng Cinta" in Increasing Public Interest Through Social Media Twitter</u></a>	47-51
Hadiono Afdjani, Daniel Simanjuntak	
<a href="#"><u>Whither the Protection for Cyberstalking Victims? Some evidence from Malaysia</u></a>	53-58
Zaiton Hamin, Wan Rosalili Wan Rosli	
<b>Community Environment / Social Psychology</b>	<b>59</b>
<a href="#"><u>Migrant Workers with Social Security in Malaysia: Are they being discriminated against?</u></a>	61-66
Namirah Mohd Akahsah , Muhammad Faliq Abd Razak , Mohd Safri Mohammd Na'aim , Ainul Mardhiyyah Tajudin	
<a href="#"><u>Religious Extremism Factors and Preventive Strategies: Al-Istishraq (Orientalism) as impetus to religious extremism</u></a>	67-71
Mohd Solahuddin Shahrudin, Mohd Norazri Mohamad Zaini, Mohd Yusra Abdullah, Mohd Paidi Norman, Muaz Mohd Noor, Che Zarrina Sa'ari	
<a href="#"><u>Sheikh Nuruddin Al-Raniri Description Of Heaven In Bad 'Al-Khalq Al-Samawat Wa Al-Ard [MSS 1517(A)]</u></a>	73-77
Mohd Solahuddin Shahrudin, Azri Bhari, Muaz Mohd Noor, Ahmad Zuhdi Ismail	
<a href="#"><u>The Development of Shariah Risk Management Model (SRM-i) for the Use of Shariah Compliance Organizations</u></a>	79-84
Mohd Helmi Ahmad, Najahudin Lateh	
<a href="#"><u>The Rohingya Crisis: Demand for international pressure for a change in Myanmar</u></a>	85-90
Hariati Ibrahim @ Musa, Namirah Mohd Akahsah	
<b>Design &amp; Creative Environment</b>	<b>91</b>

<a href="#"><u>A Conceptual Framework of Design and Material Process of Bagasse for Furniture Application</u></a>	93-97
Shahril Safian , Mohammad Azroll Ahmad , Shahril Anuar Bahari , Oskar Hasdinor Hassan	
<a href="#"><u>An Analysis of Artistic Diversity in Hybrid Art Practice among Malaysian Artists</u></a>	99-105
Valerie Anak Michael, Khairul Aidil Azlin Abd Rahman, Shureen Faris Abdul Shukor, Noor Azizi Mohd Ali	
<a href="#"><u>An Element of Culture on Printmaking Artworks</u></a>	107-110
Nazzatul Izwana, Rafeah Legino, Jebakumari , Noorziah Mohd Salleh	
<a href="#"><u>Artistic Knowledge and Practices of Hybrid Art based on the Analysis of Malaysian Artists' Artworks</u></a>	111-117
Valerie Anak Michael, Khairul Aidil Azlin Abd Rahman, Shureen Faris Abdul Shukor, Noor Azizi Mohd Ali	
<a href="#"><u>Characteristic of Local Pelangi Cloth Motifs</u></a>	119-125
Mohd Azhar Samin , Rafeah Legino	
<a href="#"><u>Primary Analysis of Co-Creation Method: A conceptual framework for Malaysian interactive product development</u></a>	127-131
Ramlan Jantan, Norfadilah Kamaruddin, Shahrman Zainal Abidin	
<a href="#"><u>Understanding Mass Persuasion and Propaganda in Malaysian Newspaper Crime Images using the Model of Jowet and Donnell Model</u></a>	133-136
Farihan Zahari, Aidah Alias, Mustafa Halabi Azahari	
<a href="#"><u>User Specifications for Successful New Product: A case study in car design</u></a>	137-142
Hassan Alli, Mohd Amil Faesal Fauzi	
<b>Educational / Learning Environment</b>	<b>143</b>
<a href="#"><u>A Content Analysis on Interface Design Principles and Characteristics of Tertiary Teaching Aids</u></a>	145-149
Norfadilah Kamaruddin, Shahrnunizam Sulaiman	
<a href="#"><u>Interactive Learning in Statistics and Students Performance in Higher Education</u></a>	151-155
Siti Fahazarina Hazudin , Nor Habibah Tarmuji , Nurul Nadia Abd Aziz , Indarawati Tarmuji , Nor Aini Hassanuddin	
<a href="#"><u>Performances in English Proficiency Course with Students' Ability in Answering Higher Order Thinking Skills Questions</u></a>	157-162
Rafidah Rasol, Syarifah Liyana Syed Mahadi, Fatimatuz Zaharah Mohd Khalid, Nur Syimal'ain Azmi, Sharipah Ruzaina Syed Aris, Wan Razarinah Wan Abdul Razak	
<a href="#"><u>Reflection in a Mathematics Classroom</u></a>	163-168
Sian Hoon Teoh , Parmjit Singh, Tau Han Cheong , Nor Syazwani Mohd Rasid	
<a href="#"><u>Report-writing Disposition and Achievement Orientation: An exploratory research on MUET students</u></a>	169-174
Boo Ho Voon, Kiat Teo Ai , Joyce E.C. Voon	
<a href="#"><u>Team-Based Learning on Teaching Medical and Health Terminology</u></a>	175-179
Nor Azmaniza Azizam, Siti Noorsuriani Maon, Liatul Izian Ali Husin, Siti Nurul Akma Ahmad , Rohana Mat Som	
<a href="#"><u>Tertiary Students' Usage of Vocabulary Learning Strategies: A case study</u></a>	181-185
Gurnam Kaur Sidhu, Nor Karina Mohamad Nor	
<a href="#"><u>The Effectiveness of Collaborative Teaching Method in Teaching Calculus I</u></a>	187-191
Muhammad Yassar Yusri, Shamsatun Nahar Ahmad, Mohd Hanafi Azman Ong, Nosiah Khalil	
<b>Hospitality / Tourism Environment</b>	<b>193</b>
<a href="#"><u>E-Tourism: Malaysian travellers intention in online accommodation booking</u></a>	195-201
Fitriya Abdul Rahim, Teck Chai Lau , David Ching Yat Ng	

<b>Legal Matters</b>	<b>203</b>
<a href="#"><u>Legal Issues and Challenges in Managing Kuala Lumpur as a Tourism Destination: A case study of the Silang Street</u></a>	205-210
Siti Sarah Sulaiman , Nur Ezan Rahmat , Najwa Azizun	
<a href="#"><u>Modalities to Address Legal Impediments to the Citizens’Right to Impart Public Sector Information</u></a>	211-217
Haswira Nor Mohamad Hashim, Anida Mahmood, Fazlin Mohamed Zain, Nurul Shuhada Suhaimi	
<a href="#"><u>Securing Proprietary Rights for Buyers of Unascertained Fungible Goods in a Bulk in Malaysia</u></a>	219-223
John Chong Oon Chuah, Azlena Khalid	
<a href="#"><u>Sticking to the Old Ways in the Plea-Bargaining Process: Some evidence from Malaysia</u></a>	225-230
Zaiton Hamin, Mohd Bahrin Othman , Ahmad Ridhwan Abd Rani	
<b>Local Cultural / Heritage Environment (Food included)</b>	<b>231</b>
<a href="#"><u>Exploring the Determinant Factors of Food Related Fatwa Issuances based on ‘Urf</u></a>	233-238
Zulaipa Ruzulan, Suhaimi Ab Rahman, Rafeah Saidon, Hanifah Musa Fathullah Harun	
<a href="#"><u>The Evolution of Malay Bride’s Traditional Wedding Attire in Peninsular Malaysia</u></a>	239-247
Nasa’ie Zainuddin, Asliza Aris, Najua Tulos, Muhammad Hisyam Zakaria	
<a href="#"><u>The Evolution of Men’s Fashion Trend on Malay Festival Costume “Baju Raya” in Malaysia (1930-2017)</u></a>	249-259
Muhammad Hisyam Zakaria , Asliza Aris , Norwani Md. Nawawi , Nasa’ie Zainuddin	
<b>Policy Matters</b>	<b>261</b>
<a href="#"><u>A Comparative Study on the Implementation of Corporate Integrity between Malaysian Public and Private Sectors Organization</u></a>	263-267
Rafidah Zainal, Ayub Md. Som, Nafsiah Mohamed	
<b>Workplace Environment</b>	<b>269</b>
<a href="#"><u>How Situational Factors at the Workplace Affect Work Engagement among Public Administrators: A mediation moderated framework</u></a>	271-276
Nor Azmawati Husain, Mira Maisarah Sulaiman	

## Authors Index

Ahmad Ridhwan Abd Rani	225-230
Ahmad Zuhdi Ismail	73-77
Aidah Alias	133-136
Ainul Mardhiyyah Tajudin	61-66
Anida Mahmood	211-217
Arif Budiwinarto	41-46
Asliza Aris	239-247, 249-259
Ayub Md. Som	263-267
Azlina Khalid	219-223
Azri Bhari	73-77
Boo Ho Voon	169-174
Che Zarrina Sa'ari	67-71
Daniel Simanjuntak	47-51
David Ching Yat Ng	31-37, 195-201
Farihan Zahari	133-136
Fatimatuz Zaharah Mohd Khalid	157-162
Fazlin Mohamed Zain	211-217
Fitriya Abdul Rahim	31-37, 195-201
Gurnam Kaur Sidhu	181-185
Hadiono Afdjani	27-30, 47-51
Hanifah Musa Fathullah Harun	233-238
Hariati Ibrahim @ Musa	85-90
Hassan Alli	137-142
Haswira Nor Mohamad Hashim	211-217
Indarawati Tarmuji	151-155
Izaham Shah Ismail	3-9, 17-23
Jebakumari	107-110
John Chong Oon Chuah	219-223
Joyce E.C. Voon	169-174
Julian Andretty	27-30
Khairul Aidil Azlin Abd Rahman	99-105, 111-117
Kiat Teo Ai	169-174
Liatul Izian Ali Husin	175-179
Mariam Felani Shaari	3-9, 17-23
Mira Maisarah Sulaiman	271-276
Mohammad Azroll Ahmad	93-97
Mohd Amil Faesal Fauzi	137-142
Mohd Azhar Samin	119-125
Mohd Bahrin Othman	225-230
Mohd Hanafi Azman Ong	187-191
Mohd Helmi Ahmad	79-84
Mohd Norazri Mohamad Zaini	67-71
Mohd Paidi Norman	67-71
Mohd Safri Mohammd Na'aim	61-66
Mohd Solahuddin Shahrudin	67-71, 73-77
Mohd Yusra Abdullah	67-71
Muaz Mohd Noor	67-71, 73-77
Muhammad Faliq Abd Razak	61-66

Muhammad Hisyam Zakaria	239-247, 249-259
Muhammad Yassar Yusri	187-191
Mustaffa Halabi Azahari	133-136
Nafsiah Mohamed	263-267
Najahudin Lateh	79-84
Najua Tulos	239-247
Najwa Azizun	205-210
Namirah Mohd Akahsah	61-66, 85-90
Nasa'ie Zainuddin	239-247, 249-259
Nazzatul Izwanna	107-110
Noor Azizi Mohd Ali	99-105, 111-117
Noorziah Mohd Salleh	107-110
Nor Aini Hassanuddin	151-155
Nor Azmaniza Azizam	175-179
Nor Azmawati Husain	271-276
Nor Habibah Tarmuji	151-155
Nor Karina Mohamad Nor	181-185
Nor Syazwani Mohd Rasid	163-168
Norfadilah Kamaruddin	127-131, 145-149
Norwani Md. Nawawi	249-259
Nosiah Khalil	187-191
Nur Ezan Rahmat	205-210
Nur Syimal'ain Azmi	157-162
Nurul Nadia Abd Aziz	151-155
Nurul Shuhada Suhaimi	211-217
Oskar Hasdinor Hassan	93-97
Parmjit Singh	163-168
Rafeah Legino	107-110, 119-125
Rafeah Saidon	233-238
Rafidah Rasol	157-162
Rafidah Zainal	263-267
Ramlan Jantan	127-131
Rohana Mat Som	175-179
Sabarinah Sheikh Ahmad	3-9, 17-23
Shahril Anuar Bahari	93-97
Shahril Safian	93-97
Shahriman Zainal Abidin	127-131
Shahrunizam Sulaiman	145-149
Shamsatun Nahar Ahmad	187-191
Sharipah Ruzaina Syed Aris	157-162
Shubatra Shanmugaretnam	31-37
Shureen Faris Abdul Shukor	99-105, 111-117
Sian Hoon Teoh	163-168
Sidik Pramono	11-16
Siti Fahazarina Hazudin	151-155
Siti Noorsuriani Maon	175-179
Siti Nurul Akma Ahmad	175-179
Siti Sarah Sulaiman	205-210
Suhaimi Ab Rahman	233-238
Syarifah Liyana Syed Mahadi,	157-162
Tau Han Cheong	163-168

Teck Chai Lau	31-37, 195-201
Umaimah Wahid	11-16, 41-46
Valerie Anak Michael	99-105, 111-117
Wan Razarinah Wan Abdul Razak	157-162
Wan Rosalili Wan Rosli	53-58
Zaiton Hamin	53-58, 225-230
Zulaipa Ruzulan	233-238





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