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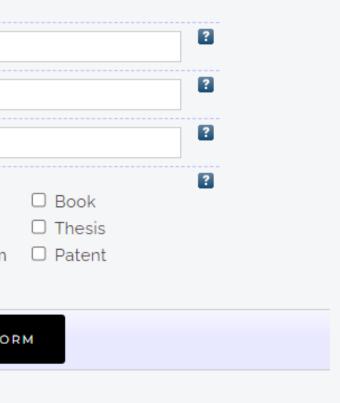
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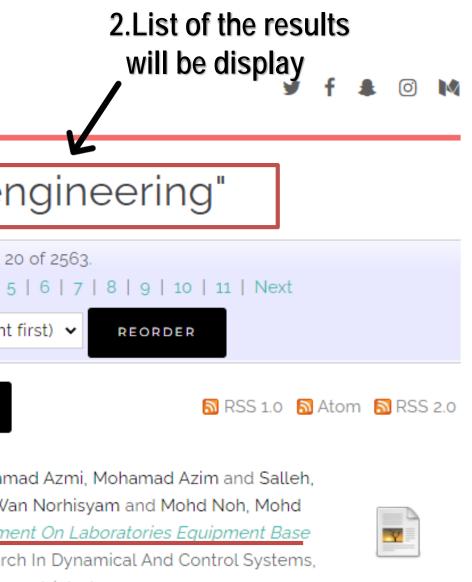
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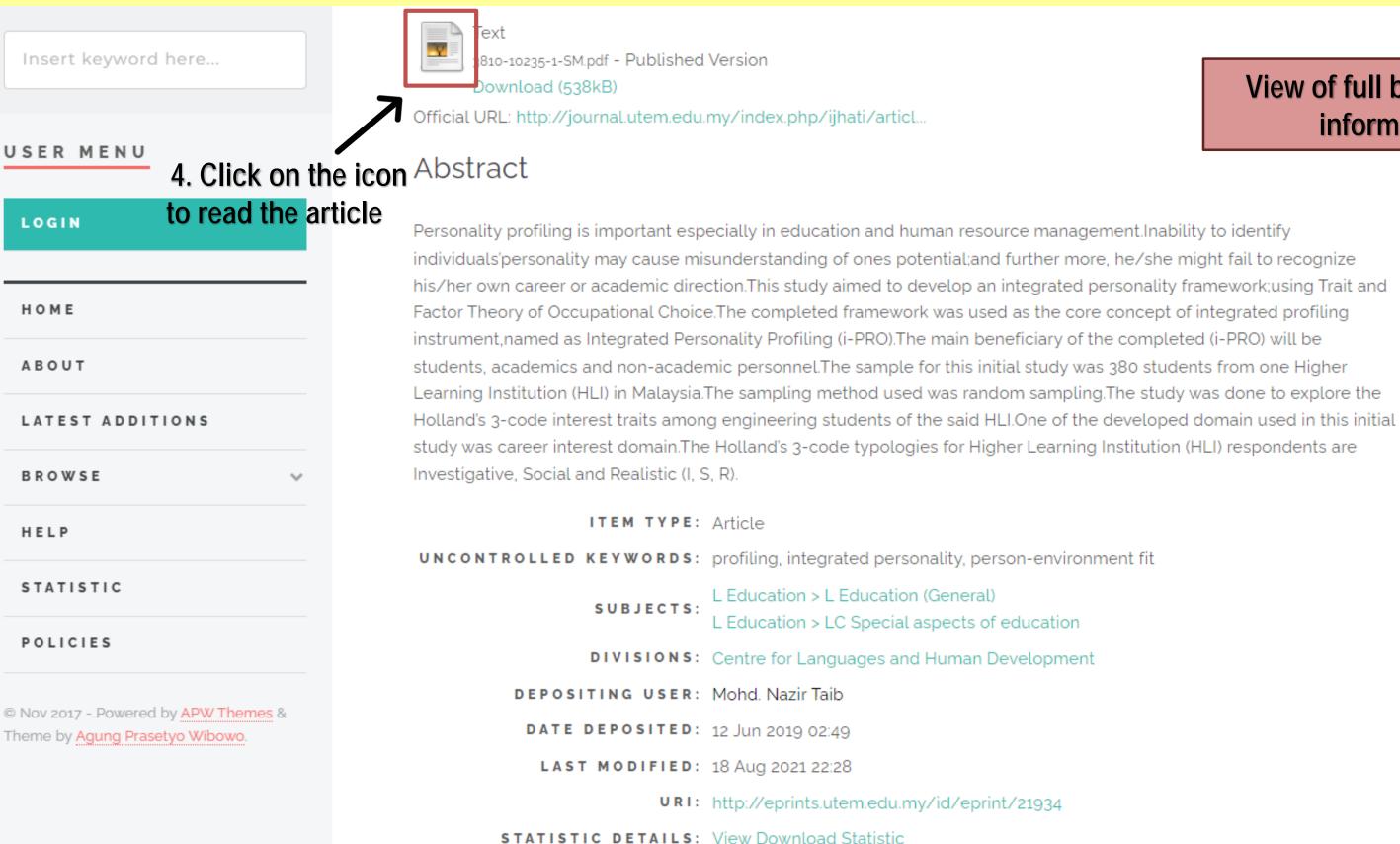
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Chong, See Ying (2018) Stab Resistant Analysis For Body Armour Design Features Manufactured Via Fused Deposition Modeling Process. Masters thesis, Universiti Teknikal Malaysia Melaka.

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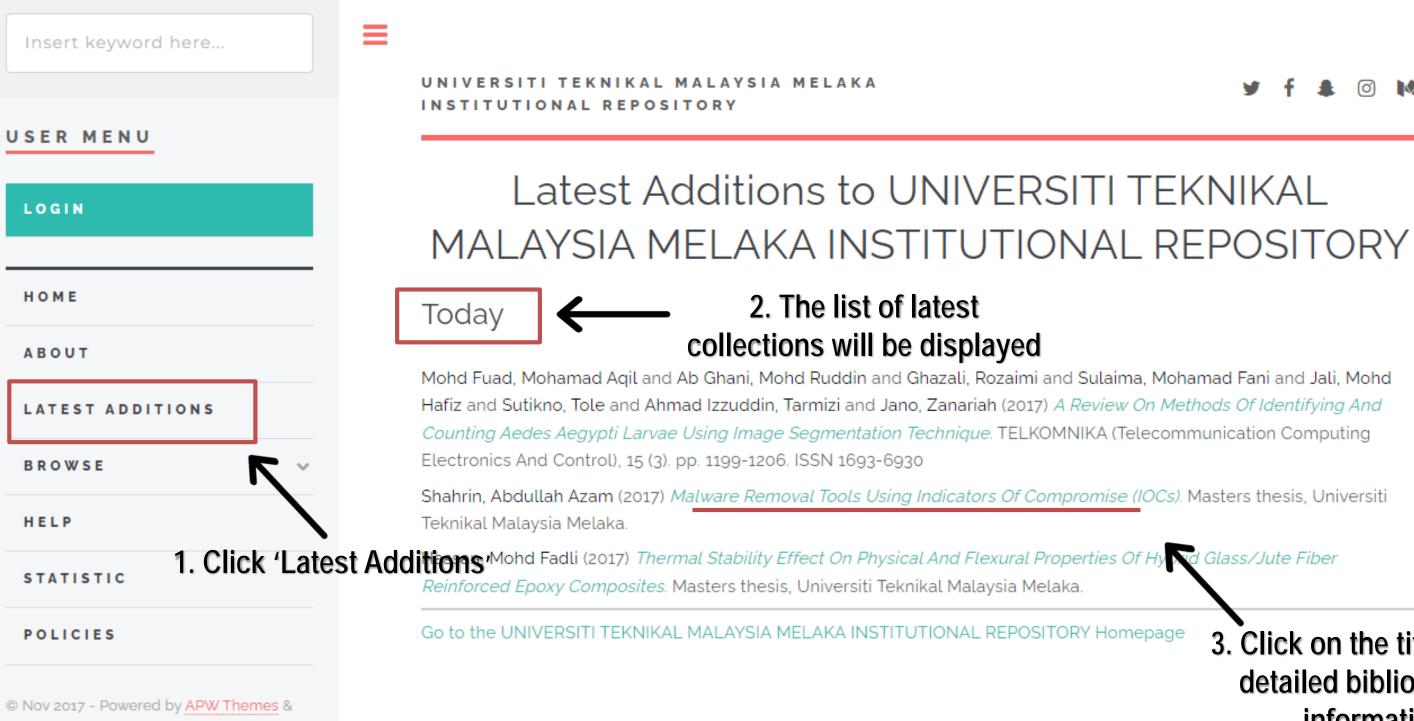
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Stab resistant body armour is a type of protective equipmer **Dages** prevent from sustaining severe injuries caused by the sharp weapons. Despite many efforts have been devoted to enhance the protection and manoeuvrability of the body armour, current protective solutions continue to present a number of issues which has shown to affect the work performance of the wearers. Yet the application of additive manufacturing (AM) technology has potentially presented as an alternative solution to produce light weight body armour that able to provide adequate protection and performance characteristics due to the nature of AM build process. This research therefore attempted to investigate the feasibility to manufacture five designs of imbricate scale armour features for stab resistant application via Fused Deposition Modeling (FDM) process in order to meet the requirement of the knife resistance (KR) level one of the current HOSDB stab-resistant body armour standard with impact energy of 24 Joules. To do this, knife blades were fabricated in accordance with the international standard and securely installed to the Instron CEAST 9340 Drop Impact Tower which used to impact test on the test specimens. The test specimens were manufactured via Stratasys Fortus 400mc machine using two of the basis FDM filament materials including ABS-M30 and PC-ABS for a light weight stab resistant body protective armour. Prior to

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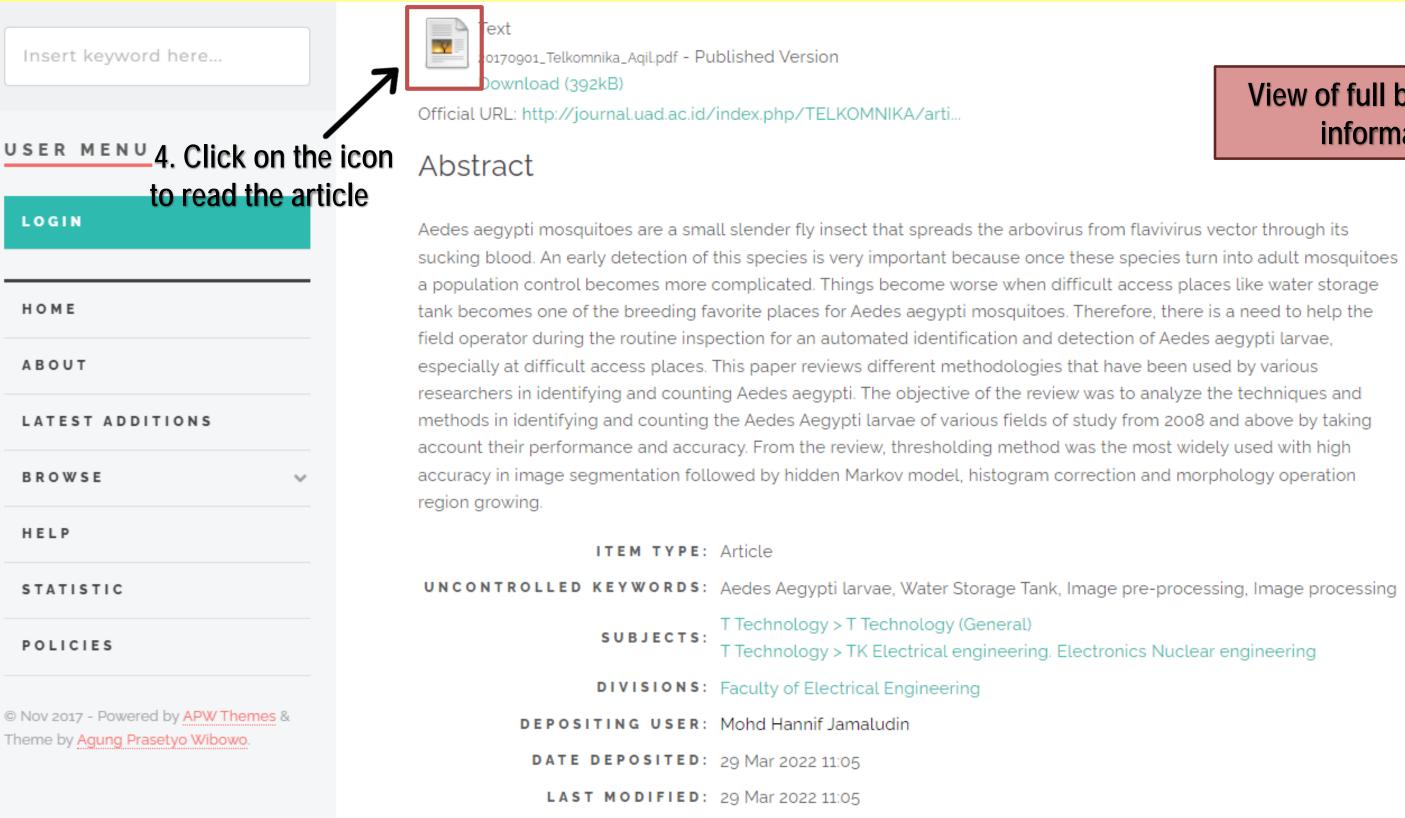
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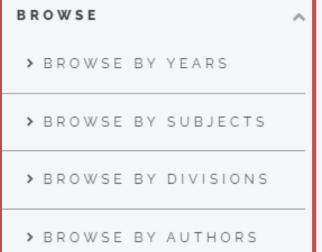
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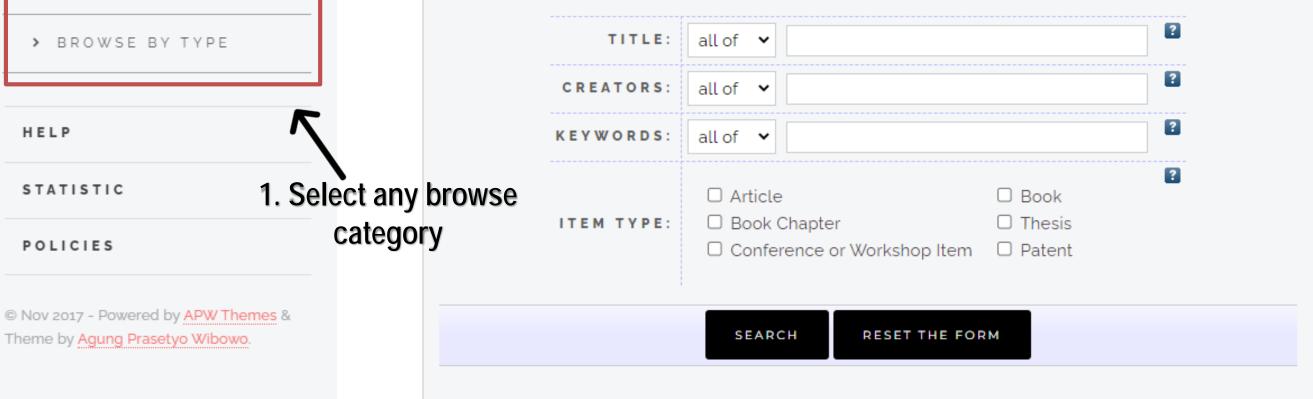
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