

HANISAH BINTI MANSHOR



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المؤهل العلمي

- Materials Engineering

مسؤوليات التدريس

DIFFERENTIAL EQUATIONS & STATISTICS	2019/2020
ENGINEERING CALCULUS I	2018/2019
ENGINEERING MATHEMATICS I	2017/2018 2018/2019 2020/2021

المشاريع البحثية

In Progress

- | | |
|-----------------------|--|
| 2019 - Present | Enhanced static and dynamic mechanical performance of Zirconia-Toughened Alumina infused with empty fruit bunch-derived solid carbon via chemical vapor infiltration technique for dual-use technologies |
| 2017 - Present | Properties improvement of ZTA-TiO ₂ -Cr ₂ O ₃ cutting insert through the optimization of powder compaction process |

المنشورات

Article

- | | |
|-------------|---|
| 2019 | The effects of CeO₂ addition on the physical and microstructural properties of ZTA-TiO₂ ceramics composite. Journal of Alloys and Compounds , 773 pp.27-33 |
| 2018 | Effect of single walled carbon nanotube addition to the physical properties of monolithic alumina. International Journal of Current Science, Engineering & Technology , 1 (Special Issue 1) pp.585-590 |
| 2017 | Microwave sintering of zirconia-toughened alumina (ZTA)-TiO₂-Cr₂O₃ ceramic composite: the effects on microstructure and properties. Journal of Alloys and Compounds , 722 pp.458-466 |

Conference or Workshop Item

- 2019 [Comparison of zirconia toughened alumina fracture toughness obtained from Vickers indentation by applying various equations.](#) In: **International Conference on X-Rays and Related Techniques in Research and Industry 2018, ICXRI 2018**
- 2019 [The effect of dolomite addition onto the phases and hardness of zirconia toughened alumina.](#) In: **International Conference on X-Rays and Related Techniques in Research and Industry 2018, ICXRI 2018**
- 2019 [Hardness and fracture toughness analysis of ZTA-SWCNT ceramic cutting inserts.](#) In: **International Conference on X-Rays and Related Techniques in Research and Industry 2018 (IXCRI 2018)**
- 2019 [Analysis on physical and microstructural properties of ZTA-SWNT ceramic cutting tool.](#) In: **International Conference on X-Rays and Related Techniques in Research and Industry 2018 (ICXRI 2018)**
- 2018 [XRD investigation of the effect of MgO additives on ZTA-TiO₂ ceramic composites.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering 2017, ICAMME 2017**

Book

- 2017 [Proceedings of The 4th International Conference on Mathematical Applications in Engineering 2017.](#) IIUM . ISBN 978-983-42978-9-3

Book Section