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Education

- Ph.D. (Materials Engineering), Prince of Songkla University, 2016
- M. Eng. (Materials Engineering), Prince of Songkla University, 2012
- B. Eng. (Materials Engineering), Prince of Songkla University, 2010



Research Interest

Materials Engineering
Ceramic Composites
Composites



Publications

Niyomwas, S., Sathaporn, T., and Singsothai, S. (2011), "Synthesis and Characterization of Metal Oxide-BaTiO₃ Composite Materials by Self-Propagating High-Temperature Synthesis Method" IOP Conference Series: Materials Science and Engineering, 18, 7, 072001.

Singsothai, S., Rachpech, V. and Niyomwas, S. (2011), "A Thermal Coating Process Using Self-Propagating High-Temperature Synthesis Assisted Flame Spray Coating Process" Energy Procedia, 9, 398-403.

Singsothai, S., Rachpech, V. and Niyomwas, S. (2012), "Effect of Substrate Conditions on Fe-Al₂O₃ Composite Coating" Advanced Materials Research, 488-489, 447-451.

Singsothai, S., Rachpech, V. and Niyomwas, S. (2013), "A Study of Fe-based Composite Coating Fabricated by The Self-Propagating High Temperature Synthesis" Advanced Materials Research, 626, 138-142.

Singsarothai, S. and Niyomwas, S. (2013), "Self-Propagating High-Temperature Synthesis of Fe-W(B, C) based Composite" *Advanced Materials Research*, 748, 46-50.

Singsarothai S., Rachphet V., and Niyomwas S. (2015), "The Effect of Rotational Speed on Steel Pipe Lined Fe-WB based Composite Coating by Centrifugal-SHS Process" *Key Engineering Materials*, 659, 545-549.

Singsarothai S., Khanhamano M., Rachphet V., and Niyomwas S. (2016), "Influence of CaO₂ Additives on the Properties of Fe-WB-Based Composite Lining Deposited by Centrifugal SHS on the Inner Surface of Steel Pipe" *International Journal of Self-Propagating High-Temperature Synthesis*, 25(3), 181-185.

Singsarothai S., Rachphet V., and Niyomwas S. (2016), "Steel pipe-lined Fe-W₂B-based composite coating by centrifugal-Self-propagating high-temperature synthesis process" *Journal of the Ceramic Society of Japan*, 124(10), 1-4.

Conference Proceeding

Singsarothai, S., Niyomwas, S. and Rachpech, V. (2011), "A Novel Thermal Coating Process Using Self-Propagating High-Temperature Synthesis Assisted Flame Spray Coating Process" *The 5th PSU-UNS International Conference on Engineering and Technology (ICET-2011)*, Prince of Songkla University, Songkhla, Thailand.

Singsarothai, S., Rachpech, V. and Niyomwas, S. (2011), "A Thermal Coating Process Using Self-Propagating High-Temperature Synthesis Assisted Flame Spray Coating Process" *The 9th Eco-Energy and Materials Science and Engineering Symposium (EMSES 2011)*, Center of Excellent on Sustainable Energy System (Thai-Japan), Chiangrai, Thailand.

Singsarothai, S., Rachpech, V. and Niyomwas, S. (2012), "Effect of Substrate Conditions on Fe-Al₂O₃ Composite Coating" *The 2nd International Conference on Key Engineering Materials (ICKEM 2012)*, International Association of Computer Science and Information Technology (IACSIT), Singapore.

Singsarothai, S., Rachpech, V. and Niyomwas, S. (2012), "A Study of Fe-based Composite Coating Fabricated by The Self-Propagating High Temperature Synthesis" The advanced Material Engineering & Technology 2012 (ICAMET 2012), Batu Feringhi, Penang Island, Malaysia.

Singsarothai, S. and Niyomwas, S. (2013), "Self-Propagating High-Temperature Synthesis of Fe-W(B, C) based Composite" The 4th International Conference on Material and Manufacturing Technology (ICMMT 2013), International Association of Computer Science and Information Technology (IACSIT), Seoul, South Korea.

Singsarothai, S., Rachpech, V. and Niyomwas, S. (2014), "The Effect of Rotational Speed on Steel Pipe Lined Fe-WB based Composite Coating by Centrifugal-SHS Process" The 8th International Conference on Materials Science and Technology (MSAT-8), Bangkok, Thailand.