



Niti Yongvanich

Niti Yongvanich is an Assistant Professor in Materials Science and Engineering at Silpakorn University (SU). He started his teaching career and joined the Faculty of Engineering and Industrial Technology at SU in 2007, where he has currently served as the Assistant Dean for Administrative Affairs and Quality Assurance in Education.

Asst. Prof. Niti Yongvanich received his Ph.D. degree in Materials Science and Engineering from the University of Pennsylvania (Penn) in 2007 with a B.S. degree from Carnegie Mellon University (double majors in Materials Science and Engineering and Engineering and Public Policy). Niti's research interests are in the manipulation of structure and properties of inorganic materials. His work focuses on the paradigm of materials science (structure-processing-property) in order to establish a strong fundamental toward innovation of traditional ceramic products.

To date, Niti and his colleagues have exemplified the incorporation of aesthetics into the basic scientific research of materials chemistry. Within this interdisciplinary domain, he has made pioneering contributions to the perception of integration of art and science in crystalline glazes originally inspired by Assist. Prof. Dr. Alice Thienprasert, the Director of Silpakorn University Research and Development Institute (SURDI). By bridging these two different academic fields and bringing expertise in both materials engineering and ceramic design, Niti's team, in 2014, has demonstrated the innovative idea of such integration by being part of the exhibition at the National Research Expo which has won Silpakorn University gold award. To expedite the work from a prototyping to a manufacturing platform, his team has currently focused on pivotal issues regarding commercial potentials. These include the crystallization behavior and maturation point reduction in ceramic glazes. In addition, his team has recently assimilated nanotechnology into possible enhancement of color stability of inorganic pigments for both commercial and cultural ceramic art products.

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