



# ASSOC. PROF. DR. SIRIPRAPA KAEWJAENG

DEPARTMENT OF RADIOLOGIC TECHNOLOGY

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## Education

- 2016 Ph.D. Biomedical Sciences, Chiang Mai University
- 2012 M.S. Medical Radiation Sciences, Chiang Mai University
- 2007 B.S.C. (Radiological Technology, Naresuan University)

## Research areas of interest

Radiation Quality Control in Diagnostic  
Radiation Shielding Materials  
Radiation Measurement  
Radiation Dose  
Luminescence  
Scintillator

## Publication

1. Ornketchon, O. Morpa, P.Meejitpaisan, P. Kaewkhao, J. **Kaewjaeng**, S. 2025 Innovative Approaches to Radiation Shielding in Healthcare: The Role of Bismuth Doped Phosphate Glass Materials Science Forum 10.4028/p-6Vb5h7
2. Yabsantia, S.Wantana, N.Chusin, T.**Kaewjaeng**, S.Ornketchon, O.Chaiphaksa, W.Cheewasukhanont, W.Kothan, S.Limsuwan, P.Kaewkhao, J. 2025 Enhancement of gamma and X-ray shielding behaviors in ZnO-B2O3 glasses via La2O3 addition: Experimental and theoretical investigations Radiation Physics and Chemistry 10.1016/j.radphyschem.2025.112959
3. Ornketchon, O. **Kaewjaeng**, S.Meejitpaisan, P.Jumpee, C.Yabsantia, S.Chusin, T.Chaiphaksa, W.Kim, H.J.Kaewkhao, J. 2025 Fabrication of colorless phosphate glass doped with Bi2O3 for lead-free radiation shielding in X-Ray and gamma-rays medical applications: A study using PHITS Monte Carlo simulation and experimental analysis Radiation Physics and Chemistry 10.1016/j.radphyschem.2025.113015
4. **Kaewjaeng**, S.Ornketchon, O.Meejitpaisan, P.Kaewkhao, J. 2025 The Optical and Radiation Shielding Characteristics of Lead-Free Glasses Activated with Barium Oxide Materials Science Forum 10.4028/p-CSM8dK
5. Ornketchon, O. **Kaewjaeng**, S.Meejitpaisan, P.Mutu Wong, C.Chaiphaksa, W.Sommat, V.Kothan, S.Kaewkhao, J. 2024 Photon shielding properties of oxyfluoride aluminophosphate glass added with Sb2O3 by using PHITS Monte Carlo simulation and experimental methods Radiation Physics and Chemistry 10.1016/j.radphyschem.2024.111993
6. Sommat, V.Ornketchon, O. **Kaewjaeng**, S.Kothan, S.Limsuwan, P.Thanyaphirak, W.Yasaka, P.Kirdsiri, K.Khondara, S.Kaewkhao, J. 2024 A novel material for radiation detection application of zinc bismuth lithium borotellurite glass doped with Dy2O3 Radiation Physics and Chemistry 10.1016/j.radphyschem.2024.112108
7. **Kaewjaeng**, S.Kothan, S.Wantana, N.Kim, H.J.Rajaramakrishna, R.Jumpee, C.Limsuwan, P.Kaewkhao, J. 2023 Fabrication luminescence and radiation shielding properties of Gd2O3-La2O3-ZnO-B2O3-Sm2O3 glasses Radiation Physics and Chemistry 10.1016/j.radphyschem.2022.110537.
8. **Kaewjaeng**, S.Boonpa, W.Kothan, S.Kim, H.J.Jumpee, C.Rajaramakrishna, R.Tungjai, M.Kaewkhao, J. 2022 X-ray radiation shielding of CeO2 doped borosilicate glasses and their luminescence characteristics Radiation Physics and Chemistry 10.1016/j.radphyschem.2021.109825