



# NUTTAWADEE INTACHAI

## Lecturer

Department of Radiologic Technology  
Faculty of Associated Medical Sciences,  
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## Research interest

Glass scintillator  
Scintillation material  
X-ray imaging  
Radiation shielding material  
Magnetic resonance spectroscopy

## Language

Thai  
English

## Awards

March 2023 | MRS-Thailand conference  
**Best Oral presentation award in  
MRS-Thailand 2023**

May 2023 | AMS symposium  
**2nd runner up award for Oral  
presentation in AMS symposium**

Nov 2023 | ICFMD conference  
**Best Poster award in ICFMD 2023, Inha  
University, Incheon, Republic of Korea**

## Education

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| 2010<br>Chiang Mai University | <b>Bachelor of Science<br/>(Radiologic Technology)</b><br>Chiang Mai University, Chiang Mai, Thailand    |
| 2019<br>Chiang Mai University | <b>Master of Science<br/>(Medical Radiation Sciences)</b><br>Chiang Mai University, Chiang Mai, Thailand |
| 2024<br>Chiang Mai University | <b>Doctor of Philosophy<br/>(Biomedical Sciences)</b><br>Chiang Mai University, Chiang Mai, Thailand     |

## Experience

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| 2010 - 2012<br>Lanna hospital | <b>Radiologic Technologist</b><br>Radiologic Technologist at Lanna hospital, Chiang Mai, Thailand.   |
| 2017 - 2021<br>AMS, CMU       | <b>Radiologic Technologist</b><br>Radiologic Technologist at Department of Radiologic Technology, Faculty of Associated Medical Sciences, Chiang Mai University, Chiang Mai, Thailand. |
| 2023 - 2024<br>KNU            | <b>Conducting Research Abroad</b><br>Scintillation material research at Kyungpook National University, Republic of Korea (Supervised by Prof. Dr. Hong Joo Kim)                        |
| Present<br>AMS, CMU           | <b>Lecturer</b><br>Lecturer at Department of Radiologic Technology, Faculty of Associated Medical Sciences, Chiang Mai University, Chiang Mai, Thailand.                               |

## Publication (Selected research articles)

- Intachai N**, Kothan S, Wantana N, Khrongchaiyapum F, Kaewjaeng S, Pakawanit P, et al. Tb3+ Doped Silicoborate Glass Scintillator for High Resolution Synchrotron X-Rays Imaging Application. Radiat Phys Chem. 2024;112062.
- Tariwong Y, Kim HJ, Quang ND, Luan NT, Daniel DJ, Truc LT, Chaiphaksa W, Kaewkhao J, **Intachai N**, Kothan S. Effect of Ba co-doping on the X-ray induced afterglow of CsI(Na) crystal. Radiat Phys Chem. 2024;223:111878.

## Publication (CONTINUED)

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- Singkiburin N, Srisittipokakun N, Rajaramakrishna R, **Intachai N**, Kothan S, Wongdamnern N, Kaewkhao J. Microwave melt-quenching technique to synthesize CuO-doped B<sub>2</sub>O<sub>3</sub>-ZnO-Na<sub>2</sub>O- Sm<sub>2</sub>O<sub>3</sub> scintillating glasses. *Radiat Phys Chem.* 2024;112029.
- Angnanon A, Damdee B, Kirdsiri K, **Intachai N**, Kaewjaeng S, Yamanoi K, et al. Quantum yield and scintillation behaviors of lanthanum barium borate doped with Eu<sup>3+</sup> ion scintillating glasses. *Radiat Phys Chem.* 2024;221:111758.
- Cheewasukhanont W, Kothan S, Mutuwong C, Sayyed MI, Ullah I, Cheewasukhanont W, Kothan S, Mutuwong C, Sayyed MI, Ullah I, **Intachai N**, et al. High-transparency barium glasses for hazardous nuclear radiation protection in medical laboratories. *Opt Mater.* 2024;149:115011.
- **Intachai N**, Kothan S, Wantana N, Kaewjaeng S, Pakawanit P, Vittayakorn N, Kanjanaboos P, Phuphathanaphong N, Kim HJ, Kaewkhao J. Eu<sub>2</sub>O<sub>3</sub> doped silicoborate glasses for scintillation material application: Luminescence ability and X-ray imaging. *Optik.* 2023;294.
- Rajaramakrishna R, **Intachai N**, Kothan S, Kaewkhao J. Tri-doped Ln<sup>3+</sup> ions in barium zinc borate glasses: Luminescence behavior at room and cryogenic temperatures. *Results in Optics.* 2023;12:100428.
- **Intachai N**, Wantana N, Kaewjaeng S, Kothan S, Kidkhunthod P, Chanlek N, Kim HJ, Kantuptim P, Yanagida T, Rajaramakrishna R, Kaewkhao J. Role of the Gd<sub>2</sub>O<sub>3</sub> increment on the cerium oxidation state and luminescence behavior in the CeF<sub>3</sub> doped silicoborate glass. *Radiat Phys Chem.* 2023;207:110862.
- **Intachai N**, Kothan S, Wantana N, Kaewjaeng S, Thandar Htun K, Kim HJ, Kaewkhao J. Luminescence Properties of Samarium Ion-Doped Silicoborate Glasses for Application in Optoelectronic Material. *physica status solidi (a).* 2023;220(10):2200440.
- **Intachai N**, Wantana N, Kaewjaeng S, Chaiphaksa W, Cheewasukhanont W, Htun KT, Kothan S, Kim HJ, Kaewkhao J. Effect of Gd<sub>2</sub>O<sub>3</sub> on radiation shielding, physical and optical properties of sodium borosilicate glass system. *Radiat Phys Chem.* 2022;199:110361.
- Kothan S, **Intachai N**, Wantana N, Meejitpaisan P, Kaewjaeng S, Htun KT, Kim HJ, Kaewkhao J. Luminescence and energy transfer properties of Gd<sup>3+</sup> and Dy<sup>3+</sup> in borosilicate glasses for tunable emission materials. *Optik.* 2022;266:169584.
- Shoaib M, Khan I, Chanthima N, Alhuthali A, **Intachai N**, Kothan S, Ahad A, Ullah I, Khattak S, Rooh G, Kaewkhao J, Ahmad T. Photoluminescence analysis of Er<sup>3+</sup> -ions Doped P<sub>2</sub>O<sub>5</sub>-Gd<sub>2</sub>O<sub>3</sub>/GdF<sub>3</sub>-BaO-ZnO glass systems. *J. Alloys Compd.* 2022;902:163766.
- Jaikumkao K, Promsan S, Thongnak L, Swe MT, Tapanya M, Htun KT, Kothan S, **Intachai N**, Lungkaphin A. Dapagliflozin ameliorates pancreatic injury and activates kidney autophagy by modulating the AMPK/mTOR signaling pathway in obese rats. *J. Cell. Physiol.* 2021;236(9):6424-40.
- Rodkong A, **Intachai N**, Sailasuta N, Aramrattana A, Uttawichai K, Thavornprisit D, Taejaroenkul S, Sintupat K, Paul R and Saekho S. Comparison the effect of two analysis methods of brain volume: Absolute brain volume and brain volume normalized with intracranial volume in methamphetamine abusers. *J Med Sci.* 2019;52(1):26-32.
- **Intachai N**, Rodkong A, Sailasuta N, Aramrattana A, Uttawichai K, Thompson M, Sirirojn B, Thavornprisit D, Taejaroenkul S, Sintupat K, Valcour V, Paul R and Saekho S. The relationship between metabolite from 1H-MRS and brain volume by magnetic resonance technique in methamphetamine users. *J Med Sci.* 2017;50(3):424-434.