

## Brinthan Kanesalingam

- Ph.D. Student in Materials Science and Engineering, admitted Summer 2024
- Masters Student in Materials Science and Engineering, admitted Winter 2026

### Publications

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#### PUBLICATIONS

- **Advances in artificial intelligence-based approaches to enhance dark field X-ray microscopy analysis.** *MRS communications*  
Kanesalingam, B., Yildirim, C., Dresselhaus-Marais, L.  
2026; 16 (1): 144-154
- **Planar 30 and 20 method for increased sensitivity to through-plane thermal properties** *INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER*  
Chalise, D., Kanesalingam, B., Chalise, D.  
2026; 256
- **Advances in artificial intelligence-based approaches to enhance dark field X-ray microscopy analysis** *MRS COMMUNICATIONS*  
Kanesalingam, B., Yildirim, C., Dresselhaus-Marais, L.  
2025
- **A percolating path to green iron.** *Cell reports. Physical science*  
Paul, S., Kanesalingam, B., Ma, Y., Villanova, J., Requena, G., Akpu, S. C., Raabe, D., Battiato, I., Dresselhaus-Marais, L.  
2025; 6 (8): 102729
- **Oblique diffraction geometry for the observation of several non-coplanar Bragg reflections under identical illumination.** *Journal of applied crystallography*  
Detlefs, C., Henningsson, A., Kanesalingam, B., Cretton, A. A., Corley-Wiciak, C., Frankus, F. T., Pal, D., Irvine, S., Borgi, S., Poulsen, H. F., Yildirim, C., Dresselhaus-Marais, L. E.  
2025; 58 (Pt 4): 1439-1446