

## Wei He

Ph.D. Student in Materials Science and Engineering, admitted Autumn 2015

### Publications

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#### PUBLICATIONS

- **Emergence of spin singlets with inhomogeneous gaps in the kagome lattice Heisenberg antiferromagnets Zn-barlowite and herbertsmithite** *NATURE PHYSICS*  
Wang, J., Yuan, W., Singer, P. M., Smaha, R. W., He, W., Wen, J., Lee, Y. S., Imai, T.  
2021
- **Site-specific structure at multiple length scales in kagome quantum spin liquid candidates** *PHYSICAL REVIEW MATERIALS*  
Smaha, R. W., Boukahil, I., Titus, C. J., Jiang, J., Sheckelton, J. P., He, W., Wen, J., Vinson, J., Wang, S., Chen, Y., Teat, S. J., Devereaux, T. P., Das Pemmaraju, et al  
2020; 4 (12)
- **Materializing rival ground states in the barlowite family of kagome magnets: quantum spin liquid, spin ordered, and valence bond crystal states** *NPJ QUANTUM MATERIALS*  
Smaha, R. W., He, W., Jiang, J., Wen, J., Jiang, Y., Sheckelton, J. P., Titus, C. J., Wang, S., Chen, Y., Teat, S. J., Aczel, A. A., Zhao, Y., Xu, et al  
2020; 5 (1)
- **Site-Specific Structure at Multiple Length Scales in Kagome Quantum Spin Liquid Candidates.** *Physical review materials*  
Smaha, R. W., Boukahil, I., Titus, C. J., Jiang, J. M., Sheckelton, J. P., He, W., Wen, J., Vinson, J., Wang, S. G., Chen, Y. S., Teat, S. J., Devereaux, T. P., Pemmaraju, et al  
2020; 4 (12)
- **Enhancement and destruction of spin-Peierls physics in a one-dimensional quantum magnet under pressure** *PHYSICAL REVIEW B*  
Rotundu, C. R., Wen, J., He, W., Choi, Y., Haskel, D., Lee, Y. S.  
2018; 97 (5)
- **Synthesis dependent properties of barlowite and Zn-substituted barlowite** *Journal of Solid State Chemistry*  
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2018; 268: 123-129