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Education & Work

Carnegie Museum of Natural History, Pittsburgh, Pennsylvania Assistant Curator of Minerals & Earth Sciences	Jan 2020-present
Washington State University, Pullman, Washington Post doctorate researcher, UO ₂ SIMFUEL synthesis and dissolution Advisor-John S. McCloy	Oct 2017-2019
University of Notre Dame, South Bend, Indiana Ph.D., uranium mineralogy and crystal-chemistry Advisor-Peter C. Burns	July 2012-Aug 2017
Michigan Technological University, Houghton, Michigan B.S. Chemistry, <i>Cum Laude</i> , Minor in Earth Sciences	Aug 2008-May 2012

Publications

1. C. Emproto, and T.A. Olds; New Mineral Names. 2024. *American Mineralogist*, 109(8): 1478–1480. doi: <https://doi.org/10.2138/am-2024-NMN109814>
2. **T.A. Olds**, J. Plášil, A.R. Kampf, Peter C. Burns, Joe Marty, John S. McCloy. 2024. Bobfinchite, Na[(UO₂)₈O₃(OH)₁₁]·10H₂O, a new Na-bearing member of the schoepite family. *American Mineralogist*, 109(7): 1266–1274. <https://doi.org/10.2138/am-2023-9031>
3. **T.A. Olds**, and C. Emproto; New Mineral Names. 2024. *American Mineralogist*, 109(4): 799–802. doi: <https://doi.org/10.2138/am-2024-NMN10949>
4. T.L. Spano, **T.A. Olds**, Marshall McDonnell, Robert Smith, Ashley E. Shields. 2024. Raman spectroscopic investigation of selected natural uranyl sulfate minerals. *American Mineralogist*, 109 (2): 274–285. doi: <https://doi.org/10.2138/am-2023-8932>
5. **T.A. Olds**, Anthony R. Kampf, John M. Hughes, Paul M. Adams, Joe Marty. 2024. Trebiskyite, the First Titanium-Decavanadate Mineral. *The Canadian Journal of Mineralogy and Petrology*; 62 (1): 117–132. doi: <https://doi.org/10.3749/2300034>
6. **T.A. Olds**, Anthony R. Kampf, Samuel L. Perry, Xiaofeng Guo, Joe Marty, Timothy P. Rose, Peter C. Burns. 2023. Navrotskyite, K₂Na₁₀(UO₂)₃(SO₄)₉·2H₂O, a new sodium and potassium uranyl-sulfate mineral from the Blue Lizard mine, Red Canyon, White Canyon District, San Juan County, Utah. *Journal of Geosciences*, volume 68 (2023), issue 3, 249 – 259. <http://doi.org/10.3190/jgeosci.378>
7. T.L. Spano, **T.A. Olds**, Marshall McDonnell, Robert Smith, Jennifer L. Niedziela, Andrew Miskowiec, Roger Kapsimalis, Ashley E. Shields. 2023. CURIES: Compendium of uranium Raman and infrared experimental spectra. *American Mineralogist*; 108 (12): 2219–2233. doi: <https://doi.org/10.2138/am-2022-8738>
8. A.R. Kampf, **T.A. Olds**, J. Plášil, B.P. Nash, and J. Marty. 2023. Libbyite, (NH₄)₂(Na₂□)[(UO₂)₂(SO₄)₃(H₂O)]₂·7H₂O, a new mineral with uranyl–sulfate sheets from the Blue Lizard mine, San Juan County, Utah, USA. *Mineralogical Magazine*; 87(5):767-772. <https://doi.org/10.1180/mgm.2023.26>
9. **T.A. Olds**, A.J. Lussier, V. Petříček, J. Plášil, A.R. Kampf, A.G. Oliver, P.C. Burns, M. Dembowski, I.M. Steele. 2023. Shinkolobweite, from the Shinkolobwe Mine, Democratic Republic of Congo: A New Mineral Containing Uranium in the Rare Pentavalent Oxidation State. *The Canadian Journal of Mineralogy and Petrology*; 61 (5): 999–1020. <https://doi.org/10.3749/2300003>

10. Kampf, A.R., **T.A. Olds**, J. Plášil, and J. Marty. 2023. Zincorietveldite, $Zn(UO_2)(SO_4)_2(H_2O)_5$, the zinc analogue of rietveldite from the Blue Lizard mine, San Juan County, Utah, USA. *Mineralogical Magazine*, 1-22.
11. Kampf, A.R., J. Plášil, **T.A. Olds**, C. Ma, and J. Marty. 2022. Chenowethite, $Mg(H_2O)_6[(UO_2)_2(SO_4)_2(OH)_2] \cdot 5H_2O$, a new mineral with uranyl-sulfate sheets from Red Canyon, Utah, USA. *Mineralogical Magazine*, 12: 1594.
12. Siuda, R., Kruszewski, L., and **T.A. Olds**. 2022. Borzeckiite, IMA 2018-46a, in: CNMNC Newsletter 70, *European Journal of Mineralogy*, 34.
13. Kampf, A.R., J. Plášil, **T.A. Olds**, C. Ma, and J. Marty. 2022. Scenicite, a new uranyl-sulfate mineral from the White Canyon district, San Juan County, Utah, USA. *Mineralogical Magazine*, 1-6. <https://doi.org/10.1180/mgm.2022.53>
14. Kampf, A.R., J. Plášil, **T.A. Olds**, C. Ma, and J. Marty. 2022. Shinarumpite, $[Co(H_2O)_6][(UO_2)(SO_4)_2(H_2O)] \cdot 4H_2O$, IMA 2021-105. CNMNC Newsletter 66; *Mineralogical Magazine*, 86: 1-4. <https://doi.org/10.1180/mgm.2022.33>
15. Kampf, A.R., **T.A. Olds**, J. Plášil, B.P. Nash, and J. Marty. 2022. Nitscheite, $(NH_4)_2[(UO_2)_2(SO_4)_3(H_2O)_2] \cdot 3H_2O$, a new mineral with an unusual uranyl-sulfate sheet. *American Mineralogist*, 107(6): 1174–1180. <https://doi.org/10.2138/am-2022-7994>
16. Kampf, A.R., **T.A. Olds**, J. Plášil, P.C. Burns, R. Skoda, and J. Marty. 2022. Paramarkeyite, a new calcium-uranyl-carbonate mineral from the Markey mine, San Juan County, Utah, USA. *Mineralogical Magazine*, 86: 27-36. [10.1180/mgm.2021.100](https://doi.org/10.1180/mgm.2021.100)
17. Karcher, S., R. Mohun, **T.A. Olds**, M. Weber, K.W. Kriegsman, X. Zhao, X. Guo, C. Corkhill, D. Field, and J.S. McCloy. 2022. Benefits of using multiple Raman laser wavelengths for characterizing defects in a UO_2 matrix. *Journal of Raman Spectroscopy*, 2022, 53(5), 988. <https://doi.org/10.1002/jrs.6321>
18. Kampf, A.R., Plášil, J., **Olds, T.A.** 2021 Uranoclite, a new uranyl-chloride mineral from the Blue Lizard mine, San Juan County, Utah, USA. *Mineralogical Magazine*;85(3):438-443. [10.1180/mgm.2021.33](https://doi.org/10.1180/mgm.2021.33).
19. **Olds, T.A.**, Plášil, J., Kampf, A.R., Dal Bo, F., Burns, P.C. 2018. Paddlewheelite, a new uranyl carbonate from the Jachymov District, Bohemia, Czech Republic, *Minerals*, 8, 511-526.
20. Ahmadzadeh, M., **Olds, T.A.**, Scrimshire, A., Bingham, P.A., McCloy, J.S. Structure and properties of $Na_5FeSi_4O_{12}$ crystallized from $5Na_2O-Fe_2O_3-8SiO_2$ glass. *Acta Crystallographica*, **2018**, C74, <https://doi.org/10.1107/S2053229618014353>.
21. Kampf, A.R., Plášil, J., **Olds, T.A.**, Nash, B.P., Marty, J., Belkin, H.E. Meyrowitzite, $(UO_2)(CO_3)_2 \cdot 5H_2O$, a new mineral with a novel uranyl-carbonate sheet. *American Mineralogist*, **2018**, 104, 603-610.
22. Kampf, A.R., Plášil, J., **Olds, T.A.**, Nash, B.P., Marty, J. Ammoniozippeite, a new uranyl sulfate mineral from the Blue Lizard mine, San Juan County, Utah, and the Burro mine, San Miguel County, Colorado, USA. *Canadian Mineralogist*, **2018**, 1-11.
23. Kampf, A.R., **Olds, T.A.**, Plasil, J., Marty, J., Perry, S.N. Feynmanite, a new sodium uranyl sulfate mineral from Red Canyon, San Juan County, Utah, USA. *Mineralogical Magazine*, **2018**, (published online).
24. **Olds, T.A.**, Plášil, J., Kampf, A.R., Burns, P.C., Nash, B.P., Marty, J., Rose, T.P., Carlson, S.M. Redcanyonite, $(NH_4)_2Mn[(UO_2)_4O_4(SO_4)_2](H_2O)_4$, a new mineral from the Blue Lizard mine, San Juan County, Utah, USA. *Mineralogical Magazine*, **2018**, (published online).
25. **Olds, T.A.**, Plášil, J., Kampf, A.R., Simonetti, A., Sadergaski, L.R., Chen, Y.S, Burns, P.C. Ewingite, Earth's most complex mineral. *Geology*, **2017**, 45(11), 1007-1010.
26. **Olds, T.A.**, Dembowski, M., Pellegrini, K.L., Hoffmann, C., Wang, X.P., Alam, T.M., He, J.H., Burns. P.C. Single-Crystal Time-of-Flight Neutron Diffraction and Magic Angle Spinning NMR Spectroscopy Resolve the Structure and 1H and 7Li Dynamics of the Uranyl Peroxide Nanocluster U_{60} . *Inorganic Chemistry*, **2017**, 56(16), 9676-9683.
27. **Olds, T.A.**, Plášil, J., Kampf, A.R., Spano, T., Haynes, P., Carlson, S.M., Burns, P.C., Simonetti, A., and Mills, O.P. Leesite, $K(H_2O)_2[(UO_2)_4O_2(OH)_5] \cdot 3H_2O$, a new K-bearing

- schoepite-family mineral from the Jomac mine, San Juan County, Utah, USA. *American Mineralogist*, **2017**, 103(1), 143-150.
28. **Olds, T.A.**, Sadergaski, L., Plášil, J., Kampf, A.R., Burns, P.C., Steele, I.M., and Marty, J. Leószilárdite, the first Na,Mg-containing uranyl carbonate from the Markey mine, San Juan County, Utah, USA. *Mineralogical Magazine*, **2017**, 81(5), 1039-1050.
 29. **Olds, T.A.**, Plášil, J., Kampf, A.R., Škoda, R., Burns, P.C., Čejka, J., Bourgoin, V., and Boulliard, J.-C. Gauthierite, $\text{KPb}[(\text{UO}_2)_7\text{O}_5(\text{OH})_7] \cdot 8\text{H}_2\text{O}$, a new uranyl-oxide hydroxy-hydrate mineral from Shinkolobwe with a novel uranyl-anion sheet-topology. *European Journal of Mineralogy*, **2017**, 29, 129-142.
 30. Dembowski, M., **Olds, T.A.**, Pellegrini, K.L., Hoffmann, C., Wang, X.P., Hickam, S., He, J.H., Oliver, A.G., Burns, P.C. Solution P-31 NMR study of the acid-catalyzed formation of a highly charged $\{\text{U}_{24}\text{Pp}_{12}\}$ nanocluster, $[(\text{UO}_2)_{24}(\text{O}_2)_{24}(\text{P}_2\text{O}_7)_{12}]^{48-}$, and its structural characterization in the solid state using single-crystal neutron diffraction. *Journal of the American Chemical Society*, **2016**, 138(27), 8547-8553.
 31. Odoh, S., Shamblin, J., Colla, C., Hickam, S., Lopez, R., **Olds, T.A.**, Szymanowski, J., Sigmon, G., Neufeind, J., Casey, W., Lang, M., Gagliardi, L., and Burns, P. Structure and Reactivity of X-ray Amorphous Uranyl Peroxide, U_2O_7 . *Inorganic Chemistry*, **2016**, 55(7), 3541-3546.
 32. Weng, Z., Zhang Z., **Olds, T.A.**, Sterniczuk, M., Burns, P.C. Cu(I) and Cu(II) uranyl heterometallic hybrid materials. *Inorganic Chemistry*, **2014**, 53(15), 7993-7998.
 33. **Olds, T.A.**, Carlson, S.M., Behnke, D., Mills, O.P. A New Find of Manganese-rich Pumpellyite from the Copper Harbor Manganese Mine, Keweenaw County, Michigan. *Rocks & Minerals*, **2014**, 89(6), 548-553.
 34. Carlson, S.M., **Olds, T.A.**, Rascona, J., Smith, A.E. A New Locality for Volborthite-From the Manganese Mine, Copper Harbor, Michigan. *Mineral News*, **2014**, 30(2).
 35. Carlson, S.M., Oravec, T., **Olds, T.A.** An Arsenate in an Iron Mine-The Discovery of Conichalcite from the Norway Mine Dickinson County, Michigan, USA. *Mineral News*, **2014**, 30(4).
 36. Luck, R.L., **Olds, T.A.**, Zeller, M. Bis $\{\mu\text{-}2,2'\text{-}[\text{butane-}2,3\text{-diylidene}] \text{bis}(\text{azanylylidene})\}$ dibenzene-thiolato}dizinc(II)-dimethyl sulfoxide-methanol (2/0.18/0.82). *Acta Crystallographica*, **2013**, C69, 1116-1119.
 37. **Olds, T.A.** Mercury Minerals of the Huron River Uranium Prospect, Baraga County, Michigan. *Rocks & Minerals*, **2012**, 87, 134-141.

Professional Societies & Involvement

Mineralogical Society of America (2012-present)

Treasurer, International Mineralogical Association (2020-present)