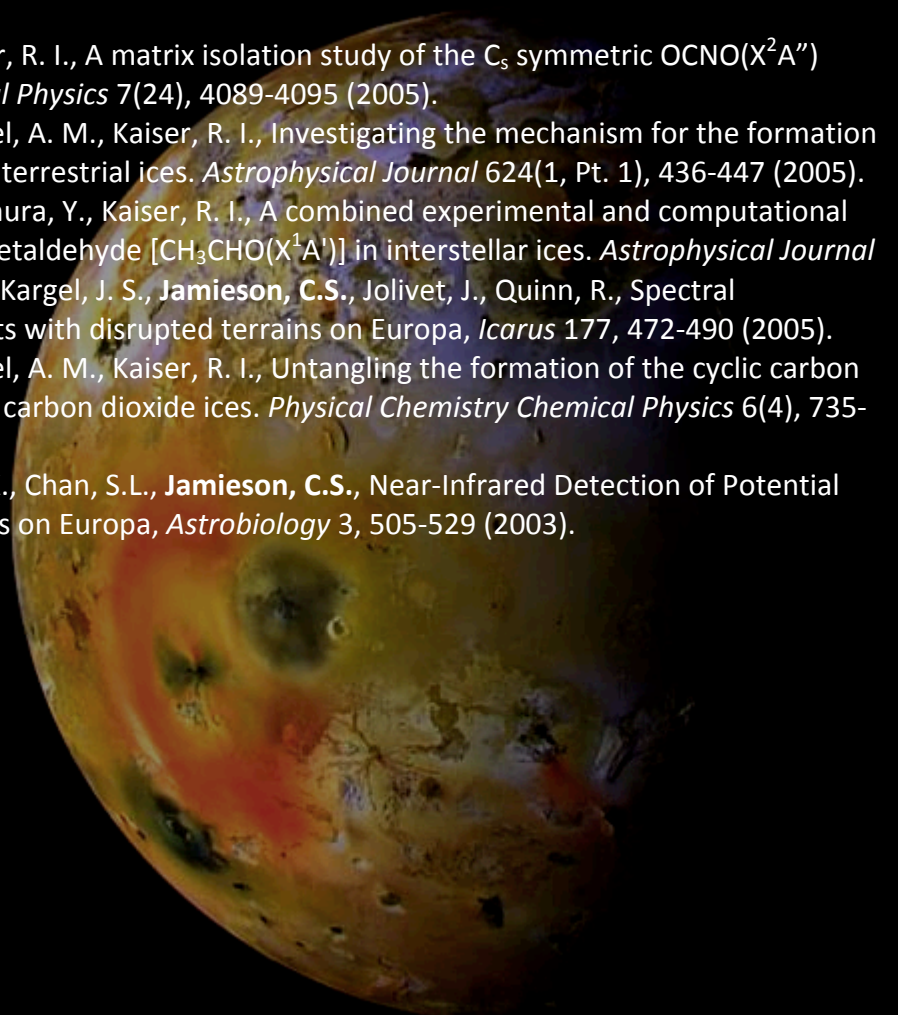


# SELECTED PEER-REVIEWED PUBLICATIONS

1. **Jamieson, C. S.**, Noe Dobrea, E. Z., Dalton, J. B., III, Pitman, K. M. and Abbey, W. J., The Spectral Variability of Kieserite with Temperature and Grain Size, *J. Geophys. Res.*, in preparation.
2. **Jamieson, C.S.**, Pejakovic, D., Kalogerakis, K.S., Oxygen atom recombination in the Martian and Venusian atmospheres: The O+O+CO<sub>2</sub> rate constant, *Chemical Physics*, in preparation.
3. **Jamieson, C.S.** and Kaiser, R.I., Radiolysis of nitrogen (N<sub>2</sub>) - carbon monoxide (CO) ices: A laboratory study of Pluto and Triton analogs, *ApJLett*, in preparation.
4. C.J. Bennett, **Jamieson, C.S.**, Kaiser, R.I., Mechanistical Studies on the Formation and Destruction of Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>), and Carbon Trioxide (CO<sub>3</sub>) in Interstellar Ice Analog Samples. *Physical Chemistry Chemical Physics* 12, 4032-4050 (2010).
5. **Jamieson, C.S.**, Chang, H. H. A., Kaiser, R. I., A laboratory study on the thermally induced transformation of hydrogen cyanide (HCN) to the cyanogen anion (CN<sup>-</sup>) in Solar System analog ices. *Advances in Space Research* 43, 1446-1450 (2009).
6. Bennett, C.J., **Jamieson, C.S.**, Kaiser, R.I., Mechanistical Studies on the Formation of Carbon Dioxide in Extraterrestrial, Carbon Monoxide Ice Analog Samples, *Physical Chemistry Chemical Physics* 11, 4210-4218 (2009).
7. Bennett, C.J., **Jamieson, C.S.**, Kaiser, R.I., An Experimental Investigation of the Decomposition of Carbon Monoxide and Formation Routes to Carbon Dioxide in Interstellar Ices. *Astrophysical Journal Supplemental Series* 182, 1-11 (2009).
8. **Jamieson, C.S.**, Mebel, A. M., Kaiser, R. I., First detection of the C<sub>s</sub> symmetric Isomer of Carbon Hexaoxide (CO<sub>6</sub>) at 10 K, *Chemical Physics Letters* 450, 312-317 (2008).
9. Bennett, C.J., **Jamieson, C.S.**, Kaiser, R.I., Mechanistical Studies on the Decomposition of Carbon Suboxide in a Cometary Ice Analogue. *Planet. Space Sciences* 56, 1181-1189 (2008).
10. **Jamieson, C.S.**, Mebel, A. M., Kaiser, R. I., First detection of the C<sub>2</sub> symmetric Isomer of Carbon Pentaoxide (CO<sub>5</sub>) at 10 K, *Chemical Physics Letters* 443, 49-54 (2007).
11. **Jamieson, C.S.**, Mebel, A. M., Kaiser, R. I., Novel Detection of the C<sub>2v</sub> Isomer of Carbon Tetraoxide (CO<sub>4</sub>), *Chemical Physics Letters* 440, 105-109 (2007).
12. **Jamieson, C.S.**, Kaiser, R. I., Isotopic Study of the Formation of the Azide Radical (N<sub>3</sub>), *Chemical Physics Letters* 440, 98-104 (2007).
13. Carrier, W. **Jamieson, C.S.**, Kaiser, R.I., Mechanistic Studies on the Formation of Trifluoromethyl Sulfur Pentafluoride, SF<sub>5</sub>CF<sub>3</sub> - A Greenhouse Gas. *Inorganic Chemistry* 46, 1332-1336 (2007).
14. Sivaraman, B., **Jamieson, C.S.**, Mason, N. J., Kaiser, R. I., Temperature-dependent Formation of Ozone in Solid Oxygen by 5 keV Electron Irradiation and Implications for Solar System Ices, *Astrophysical Journal* 669, 1414-1421 (2007).
15. **Jamieson, C.S.**, Mebel, A. M., Kaiser, R. I., Identification of the D<sub>3h</sub> Isomer of Carbon Trioxide (CO<sub>3</sub>) and Its Implications for Atmospheric Chemistry, *ChemPhysChem* 7, 2441- 2443 (2006)
16. **Jamieson, C.S.**, Mebel, A. M., Kaiser, R. I., Understanding the Kinetics and Dynamics of Radiation Induced Reaction Pathways in Carbon Monoxide Ice at 10K, *Astrophysical Journal Supplemental Series* 163, 184-206 (2006).
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18. Bennett, C. J., **Jamieson, C.S.**, Osamura, Y., Kaiser, R. I., Laboratory studies on the irradiation of methane in interstellar, cometary, and solar system ices, *Astrophysical Journal* 653, 792-811 (2006).

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19. **Jamieson, C.S.**, Mebel, A. M., Kaiser, R. I., A matrix isolation study of the  $C_s$  symmetric  $OCNO(X^2A'')$  radical, *Physical Chemistry Chemical Physics* 7(24), 4089-4095 (2005).
  20. **Jamieson, C.S.**, Bennett, C. J., Mebel, A. M., Kaiser, R. I., Investigating the mechanism for the formation of nitrous oxide [ $N_2O(X^1S^+)$ ] in extraterrestrial ices. *Astrophysical Journal* 624(1, Pt. 1), 436-447 (2005).
  21. Bennett, C. J., **Jamieson, C.S.**, Osamura, Y., Kaiser, R. I., A combined experimental and computational investigation on the synthesis of acetaldehyde [ $CH_3CHO(X^1A')$ ] in interstellar ices. *Astrophysical Journal* Dalton, J. B., Prieto-Ballesteros, O., Kargel, J. S., **Jamieson, C.S.**, Jolivet, J., Quinn, R., Spectral comparison of heavily hydrated salts with disrupted terrains on Europa, *Icarus* 177, 472-490 (2005).
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  23. Dalton, J.B., Mogul, R., Kagawa, H.K., Chan, S.L., **Jamieson, C.S.**, Near-Infrared Detection of Potential Evidence for Microscopic Organisms on Europa, *Astrobiology* 3, 505-529 (2003).