

134. **Fegley, B., Jr.** and Schaefer, L. (2012) Chemistry of the Earth's Earliest Atmosphere, In *The Atmosphere – History* (ed., J. Farquhar, D. Canfield, and J. Kasting), Vol. 13 *Treatise on Geochemistry*, (eds. H. D. Holland and K. K. Turekian), Elsevier Science, 2nd ed., in press.
133. Schaefer, L., Lodders, K., and **Fegley, B., Jr.** (2012) Vaporization of the Earth: Application to exoplanet atmospheres. *ApJ*, 755:41 doi:[10.1088/0004-637X/755/1/41](https://doi.org/10.1088/0004-637X/755/1/41).
132. Leggett, S. K., Saumon, D., Marley, M. S., Lodders, K., Canty, J., Lucas, P., Smart, R. L., Tinney, C. G., Homeir, D., Allard, F., Burningham, B., Day-Jones, A., **Fegley, B.**, Ishii, M., Joones, H. R. A., Marocco, F., Pinfield, D. J., and Tamura, M. (2012) The properties of the 500 K dwarf UGPS J072227.51 – 054031.2, and a study of the far-red flux of cold brown dwarfs. *ApJ*, 748, L74 doi:[10.1088/0004-637X/748/2/74](https://doi.org/10.1088/0004-637X/748/2/74).
131. Miguel, Y., Kaltenecker, L., **Fegley, B.**, and Schaefer, L. (2011) Composition of hot super-Earth atmospheres: Exploring Kepler candidates. *ApJ* 742, L19 doi:[10.1088/2041-8205/742/2/L19](https://doi.org/10.1088/2041-8205/742/2/L19).
130. Rouan, D., Deeg, H. J., Demangeon, O., Samuel, B., Cavaroc, C., **Fegley, B.**, and Leger, A. (2011) The orbital phases and secondary transit of Kepler-10b – A physical interpretation based on the Lava-ocean planet model. *ApJ*, 741, L30 doi:[10.1088/2041-8205/741/2/L30](https://doi.org/10.1088/2041-8205/741/2/L30).
129. A. Leger, O. Grasset, **B. Fegley**, F. Codron, F. Albarede, P. Barge, R. Barnes, P. Cance, S. Carpy, F. Catalano, C. Cavarroc, O. Demangeon, S. Ferraz-Mello, P. Gabor, J-M. Griessmeier, J. Leibacher, G. Libourel, A-S. Maurin, S. N. Raymond, D. Rouan, B. Samuel, L. Schaefer, P. A. Schuller, F. Selsis, and C. Sotin (2011) The Extreme Physical Properties of the CoRoT-7b Exoplanet. *Icarus* 213, 1-11.
128. L. Schaefer and **B. Fegley, Jr.** (2011) Atmospheric Chemistry of Venus-like Exoplanets. *ApJ*. 729 doi: [10.1088/0004-637X/729/1/6](https://doi.org/10.1088/0004-637X/729/1/6).
127. C. Visscher, K. Lodders, and **B. Fegley, Jr.** (2010) Atmospheric Chemistry in Giant Planets, Brown Dwarfs, and Low-Mass Dwarf Stars III. Iron, Magnesium, and Silicon. *ApJ* 716, 1060-1075.
126. K. Zahnle, L. Schaefer, and **B. Fegley, Jr.** (2010) Earth's Earliest Atmospheres, pp. 49-66, In *The Origins of Life* (eds., D. Deamer, J. W. Szostak, A. A. Rich), Cold Spring Harbor Laboratory Press, ISBN-13: 978-1936113040.
125. **B. Fegley, Jr.** and L. Schaefer (2010) Cosmochemistry, pp. 347-377, In *Principles and Perspectives in Cosmochemistry: Lecture Notes of the Kodai School on "Synthesis of Elements in Stars"* (eds. A. Goswami and B. E. Reddy), Springer, ISBN-13: 978-3642103513
124. L. Schaefer and **B. Fegley, Jr.** (2010) Chemistry of Atmospheres Formed during Accretion of the Earth and other Terrestrial Planets. *Icarus* 208, 438-448.
123. L. Schaefer and **B. Fegley, Jr.** (2010) Volatile Element Chemistry during Metamorphism of Ordinary Chondritic Material. *Icarus* 205, 483-496.
122. L. Schaefer and **B. Fegley, Jr.** (2009) Chemistry of silicate atmospheres of evaporating super-Earths. *ApJ*. 703, L113-L117.
121. **B. Fegley, Jr.** and L. Schaefer (2009) Cosmochemistry of the Biogenic Elements C, H, N, O, and S, pp. 23-49. In *Astrobiology: Emergence, Search and Detection of Life* (ed. V. A. Basiuk), American Scientific Publishers, ISBN-13: 978-1588831378
120. **B. Fegley, Jr.** (2009) Atmospheric Evolution of Venus, in *Encyclopedia of Paleoclimatology and Ancient Environments*, pp. 75-83, (V. Gornitz, Ed.), Springer, ISBN-13: 978-1402045516
119. L. Schaefer and **B. Fegley, Jr.** (2008) Chemistry and Composition of Planetary Atmospheres, pp. 187-207. In *Chemical Evolution Across Space and Time From the Big Bang to Prebiotic Chemistry* (eds. L. Zaikowski and J. M. Friedrich), ACS Symposium Series 981, Oxford Univ. Press, ISBN-13: 978-0841274310
118. J. L. Bada, **B. Fegley, Jr.**, S. L. Miller, A. Lazcano, J. H. Cleaves, R. M. Hazen, and J. Chalmers (2007) Debating Evidence for the Origin of Life on Earth. *Science* 315, 937-938.
117. L. Schaefer and **B. Fegley, Jr.** (2007) Outgassing of Ordinary Chondritic Material and Some of its Implications for the Chemistry of Asteroids, Planets, and Satellites. *Icarus* 186, 462-483.
116. C. Visscher, K. Lodders, and **B. Fegley, Jr.** (2006) Atmospheric Chemistry in Giant Planets, Brown Dwarfs, and Low-Mass Dwarf Stars II. Sulfur and Phosphorus. *ApJ* 648, 1181-1195.
115. K. Lodders and **B. Fegley, Jr.** (2006) Chemistry of Low Mass Substellar Objects, pp. 1-28. In *Astrophysics Update 2* (ed. J. W. Mason), Springer – Praxis, Chichester, UK, ISBN-13: 978-3540303121
114. L. Schaefer and **B. Fegley, Jr.** (2005) Chemistry of SiF₄ on Io. *Icarus* 179, 252-258.
113. L. Schaefer and **B. Fegley, Jr.** (2005) Application of an Equilibrium Vaporization Model to the Ablation of Chondritic and Achondritic Meteoroids. *Earth, Moon and Planets* DOI 10.1007/s11038-005-9030-1.
112. C. Visscher and **B. Fegley, Jr.** (2005) Chemical Constraints on the Water and Total Oxygen Abundances in the Deep Atmosphere of Saturn. *ApJ* 623, 1221-1227.
111. L. Schaefer and **B. Fegley, Jr.** (2005) Predicted Abundances of Carbon Compounds in Volcanic Gases on Io. *ApJ* 618, 1079-1085.
110. L. Schaefer and **B. Fegley, Jr.** (2005) Alkali and Halogen Chemistry in Volcanic gases on Io. *Icarus* 173, 454-468.
109. L. Schaefer and **B. Fegley, Jr.** (2004) Heavy Metal Frost on Venus. *Icarus* 168, 215-219.

108. L. Schaefer and **B. Fegley, Jr.** (2004) A Thermodynamic Model of High Temperature Lava Vaporization on Io. *Icarus* **169**, 216-241.
107. **B. Fegley, Jr.** (2004) Venus, pp. 487-507. In *Meteorites, Comets, and Planets* (ed. A. M. Davis) Vol. 1 *Treatise on Geochemistry* (eds. H. D. Holland and K. K. Turekian), Elsevier Science, ISBN-13: 978-0080447209
106. N. M. Johnson and **B. Fegley, Jr.** (2003) Tremolite Decomposition on Venus. II. Products, Kinetics, and Mechanism. *Icarus* **164**, 317-333.
105. N. M. Johnson and **B. Fegley, Jr.** (2003) Longevity of Fluorine-bearing Tremolite on Venus. *Icarus* **165**, 340-348.
104. K. Lodders and **B. Fegley, Jr.** (2002) Atmospheric Chemistry in Giant Planets, Brown Dwarfs, and Low-Mass Dwarf Stars I. Carbon, Nitrogen, and Oxygen. *Icarus* **155**, 393-424.
103. J. I. Moses, M. Yu. Zolotov, and **B. Fegley, Jr.** (2002) Alkali and Chlorine Photochemistry in a Volcanically Driven Atmosphere on Io, *Icarus* **156**, 107-135.
102. J. I. Moses, M. Yu. Zolotov, and **B. Fegley, Jr.** (2002) Photochemistry of a Volcanically Driven Atmosphere on Io: Sulfur and Oxygen Species from a Pele-Type Eruption, *Icarus* **156**, 76-106.