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Education

- 2005 Ph.D., Geochemistry, *University of Maryland, College Park*
Dissertation: *Lithium isotopic systematics of the continental crust*
Advisors: Drs. William F. McDonough and Roberta L. Rudnick
- 2001 B.S., Geochemistry, *University of Science and Technology of China*

Research Interests

Study of composition and differentiation of the Earth and early solar system using stable isotope systematics measured by multi-collector inductively coupled plasma mass spectrometry (MC-ICPMS).

Professional Employment

- 1/2023 – present Associate Chair & Graduate Program Coordinator, *Earth & Space Sciences, UW*
- 9/2018 – present Professor, *Earth & Space Sciences, UW*
- 1/2013 – 9/2018 Associate Professor, *Earth & Space Sciences, UW*
- 8/2012 – 12/2012 Associate Professor, *Geosciences, Univ. of Arkansas, Fayetteville*
- 1/2008 – 8/2012 Assistant Professor, *Geosciences, Univ. of Arkansas, Fayetteville*
- 6/2006 – 12/2007 Post-doc, *Field Museum of Natural History and Univ. of Chicago*
- 2/2006 – 5/2006 Post-doc, *Dept. of Geology, Univ. of Maryland, College Park*

Visiting Appointments

- Visiting Professor, *Institut de Physique du Globe de Paris* (2019)
- Visiting Professor, *China University of Geosciences, Beijing* (2011, 2012, 2014, 2016, 2017, 2019)
- Visiting Professor, *University of Bristol* (2015)

Awards and Honors

- Fellow, *Geochemical Society* (2024)
- Fellow, *European Association of Geochemistry* (2024)
- F. Earl Ingerson Lecturer, *Geochemical Society* (2024)
- Fellow, *Mineralogical Society of America* (2014)
- MSA Award, *Mineralogical Society of America* (2014)
- CAREER Award, *National Science Foundation* (2011)

- Bassett Distinguished Teaching Award, *Department of Earth and Space Sciences, UW* (2017)
- Exceptional Mentoring of Undergraduates Award, *College of the Environment, UW* (2015)
- Robert C. and Sandra Connor Endowed Faculty Fellowship, *U. of Arkansas, Fayetteville* (2012)
- Best Talk Award, Ph.D. category, *Dept. of Geology, Univ. of Maryland, College Park* (2005)

- Excellent Editor Award (2023), *Science China*
- Best Associate Editor Award (2015), *Science Bulletin*

Peer-reviewed Publications (* graduate student; ** postdoc; *** undergraduate student)

Total citations = 11931 and H-index = 61 (Google Scholar, 2/2024)

Total citations = 9326 and H-index = 57 (Web of Science, 2/2024)

Books and Special Volumes

Teng, F.-Z. and Wu, F.-Y. eds. (2024) Himalayan Leucogranites. *Elements*. Vol. 20, no. 6.

Teng, F.-Z., Tipper, E. T., Kita, N. (2024) Magnesium Isotope Geochemistry and Cosmochemistry. *Springer*. Under contract.

Teng, F.-Z., Lee, C.-T., Aulbach, S., and Liu, X.-M. eds. (2020) The continents: Origin, evolution and interactions with other reservoirs, *Geochimica et Cosmochimica Acta*, Vol. 278, 404 p.

Teng, F.-Z., Watkins, J., Dauphas, N. eds. (2017) Non-Traditional Stable Isotopes. *Reviews in Mineralogy & Geochemistry*. Vol. 82, 885 p.

Teng, F.-Z. and Ma, L. eds. (2016) Deciphering isotope signatures of Earth Surface and Critical Zone processes, *Chemical Geology*, Vol. 445, 220 p.

Sun, W., Tatsumi, Y., **Teng, F.-Z.**, Yang, X.-Y. and Ling, M.-X. eds. (2014) The Subduction Factory: Geochemical perspectives, *Geochimica et Cosmochimica Acta*, Vol. 143, 330 p.

Peer-reviewed Papers and Chapters

150. **Teng, F.-Z.** and Williams H. M. (2024) Non-Traditional Stable Isotope Geochemistry of Oceanic Basalts. In: Earth's Interior, C. Chauvel, editor, Treatise on Geochemistry, Third Edition, Volume 3, (eds. Weiss, C. and Anbar, A.), pp. xx-xx, Elsevier-Pergamon, Oxford, xx p.

149. Liu, S.-A., Rudnick, R. L., Liu, W.-R., **Teng, F.-Z.**, Wu, T.-H.* and Wang, Z.-Z.** (2023) Copper isotope evidence for sulfide fractionation and lower crustal foundering in making continental crust, *Science Advances*, 9, eadg6995.

148. Chen, L.-M., Lightfoot, P. C., Zhu, J.-M., **Teng, F.-Z.**, Duan, Q., Yin, R., Wu, G.-L., Yu, S.-Y. and Hu, R.-Z. (2023) Nickel isotope ratios trace the process of sulfide-silicate liquid immiscibility during magmatic differentiation, *Geochimica et Cosmochimica Acta*, 353, 1-12.

147. Qu, Y.-R., Liu, S.-A., Busigny, V., Wang, Z.-Z.** and **Teng, F.-Z.** (2023) Carbonate-silicate interaction in subducting slabs recorded by Zn isotopes in western Alps metasediments, *Earth and Planetary Science Letters*, 616, 118234.

146. Yang, X.-M.*, Wang, S.-J., Zhang, Y.-W., Dong, X.-H., **Teng, F.-Z.**, Helz, R. T., Huang, J., Li, X.-H. and Huang, S. (2023) Nickel isotope fractionation during magmatic differentiation, *Geochemistry, Geophysics, Geosystems*, 24, e2023GC010926.
<https://doi.org/10.1029/2023GC010926>.

145. Wu, J., Lei, H., Ma, Q.*, Zhao, Z., **Teng, F.-Z.**, Zhang, S., Cousens, B., Miao, Z., Yang, Y., Liu, D., Wang, Q., Zhu, D.-C., Hou, Z. and Mo, X. (2023) Petrogenesis and dynamic significance of Miocene-Holocene alkali basalts in the southeastern Tibetan Plateau, *Lithos*, 448-449, 107165.
<https://doi.org/10.1016/j.lithos.2023.107165>.

144. Chanda, P.*, Kohli, A., **Teng, F.-Z.** and Fantle, M. S. (2023) Clay authigenesis in carbonate-rich sediments and its impact on carbonate diagenesis. *Geochimica et Cosmochimica Acta*, 346, 76-101.

143. Nie, N. X.*, Chen, X.-Y.***, Zhang, Z. J., Hu, J. Y., Liu, W., Tissot, F. L. H., **Teng, F.-Z.**, Shahar, A. and Dauphas, N. (2023) Rubidium and potassium isotopic variations in chondrites and Mars: Accretion signatures and planetary overprints. *Geochimica et Cosmochimica Acta*, 344, 207-229.

142. Huang, T.-Y.*, **Teng, F.-Z.**, Wang, Z.-Z.**, He, Y.-S., Wu, F.-Y. and Liu, X.-C. (2023) Potassium isotope fractionation during granitic magmatic differentiation: Mineral-pair perspectives, *Geochimica et Cosmochimica Acta*, 343, 196-211.
141. Kettler, R. M., He, Y., Ke, S., **Teng, F.-Z.** and Loope, D. B. (2022) Iron isotope evidence for siderite precursors to iron oxide concretions from the Navajo sandstone, Utah, *Chemical Geology*, 612, 121146. <https://doi.org/10.1016/j.chemgeo.2022.121146>.
140. Wang, Z.-Z.**, **Teng, F.-Z.**, Wu, F.-Y., Liu, Z.-C., Liu, X.-C., Liu, S.-A. and Huang, T.-Y.* “Extensive crystal fractionation of high-silica magmas revealed by potassium isotopes, *Science Advances*, 8, eabo4492. <https://doi.org/10.1126/sciadv.abo4492>.
139. Lei, H., Zhao, Z., Ma, Q., **Teng, F.-Z.**, Zhang, S., Cousens, B., Liu, D., Zhu, D.-C., Wang, Q., Miao, Z., Yang, Y. and Wu, J. (2022) Petrogenesis of the Paleogene potassium-rich volcanic rocks in the western Yangtze Craton, southeastern Tibetan Plateau, *Lithos*, 430-431, 106886. <https://doi.org/10.1016/j.lithos.2022.106886>.
138. Xing, K.-C.*, Wang, F., **Teng, F.-Z.**, Xu, W.-L., Li, M., Sun, Y.-W. and Yang, D.-B. (2022) High-latitude climatic response across the Triassic-Jurassic boundary recorded by Mg-Cu-Zn isotopes, *Chemical Geology*, 610, 121085. <https://doi.org/10.1016/j.chemgeo.2022.121085>.
137. Li, W.-S.*, Liu, X.-M., Hu, Y.**, **Teng, F.-Z.**, Dong, S. and Chadwick, O. A. (2022) Potassium isotope fractionation during chemical weathering in humid and arid Hawaiian regoliths, *Geochimica et Cosmochimica Acta*, 333, 39-55.
136. Tian H.-C.**, **Teng, F.-Z.**, Chen, X.-Y.**, Guo, Z.-X, Peng, X.-T., Yang, W. and Xiao, Y.-L. (2022) Multi-mode chemical exchange in seafloor alteration revealed by lithium and potassium isotopes, *Chemical Geology*, 606, 121004. <https://doi.org/10.1016/j.chemgeo.2022.121004>.
135. He, Y.-S., Sun, A.-Y., Zhang, Y.-C., Yang, R.-Y., Ke, S., Wang, Y. and **Teng, F.-Z.** (2022) High precision and high-accuracy magnesium isotope analysis on multiple-collector inductively coupled plasma mass spectrometry using a critical mixture double spike technique, *Solid Earth Sciences*, 7, 188-199.
134. Li, W.-J., Cui, M., Pan, Q., Wang, J., Gao, B., Liu, S., Su, B., Zhao, Y., **Teng, F.-Z.** and Han, G.-L. (2022) High-precision potassium isotope analysis using the Nu Sapphire collision cell (CC) MC-ICP-MS, *Science China Earth Sciences*, 65, <https://doi.org/10.1007/s11430-022-9948-6>.
133. Huang, K.-J., **Teng, F.-Z.**, Shen, B., Ma, L., Zhang, H., Zhang, P. and Wang, Q. (2022) Tracing surficial processes by stable magnesium isotopes: Principles and applications, *Bulletin of Mineralogy, Petrology and Geochemistry (in Chinese)*, 41, 213-234. <https://doi.org/10.19658/j.issn.1007-2802.2022.41.014>.
132. Wang, Z.-Z.**, **Teng, F.-Z.**, Busigny, V. and Liu, S.-A. (2022) Evidence from HP/UHP metasediments for subduction of isotopically heterogeneous potassium into the mantle, *American Mineralogist*, 107, 350-356. <https://doi.org/10.2138/am-2021-7923>.
131. Wang, Z.-Z.**, Liu, S.-A., Rudnick, R. L., **Teng, F.-Z.**, Wang, S.-J. and Haggerty, S. E. (2022) Zinc isotope evidence for carbonate alteration of oceanic crustal protoliths of cratonic eclogites, *Earth and Planetary Science Letters*, 580, 117394.
130. Nie, N.X.*, Chen, X.-Y.**, Hopp, T., Hu, J. Y, Zhang, J. Z., **Teng, F.-Z.**, Shahar, A. and Dauphas, N. (2021) “Imprint of chondrules formation on the K and Rb isotopic compositions of carbonaceous chondrites”. *Sci. Adv.*, 7, eabl3929.
129. Lei, H, Zhao, Z., Niu, Y., Zhang, S., Cousens, B., Ma, Q., **Teng, F.-Z.**, Liu, D., Miao, Z., Yang, Y., Wu, J., Wang, Q., and Zhu, D.-C. (2021) Identifying deep recycled carbonates through Miocene basalts in the Maguan area, SE Tibetan Plateau, *Lithos*, 400-401, 106356.
128. Wang, Z.-Z.**, **Teng, F.-Z.**, Prelevic, D., Liu, S.-A. and Zhao, Z. (2021) Potassium isotopic evidence for sediment recycling into the orogenic lithospheric mantle, *Geochem. Persp. Let.* 18, 43-47. <https://doi.org/10.7185/geochemlet.2123j>.

127. Chen, L.-M., **Teng, F.-Z.**, Song, X.-Y., Luan, Y., Yu, S.-Y. and Kang, J. (2021) Origins and implications of magnesium isotopic heterogeneity in Fe-Ti oxides in layered mafic intrusions, *Geochimica et Cosmochimica Acta*, 308, 273-290. <https://doi.org/10.1016/j.gca.2021.06.016>.
126. Li, W.-S.*, Liu, X.-M., Hu, Y.***, **Teng, F.-Z.**, Hu, Y. and Chadwick, O. A. (2021) Potassium isotopic fractionation in a humid and an arid soil-plant system in Hawaii, *Geoderma*, 400, 115219. <https://doi.org/10.1016/j.geoderma.2021.115219>.
125. Sun, Y**, **Teng, F.-Z.**, Pang, K.-N., Ying, J.-F. and Kuehner, S. (2021) Multistage mantle metasomatism deciphered by Mg-Sr-Nd-Pb isotopes in the Leucite Hills lamproites, *Contributions to Mineralogy and Petrology*, 176, 45. <https://doi.org/10.1007/s00410-021-01801-9>.
124. Li, W.-S.*, Liu, X.-M., Hu, Y.***, **Teng, F.-Z.** and Hu, Y. (2021) Potassium isotopic fractionation during clay adsorption, *Geochimica et Cosmochimica Acta*, 304, 160-177.
123. Nie, N. X.*, Dauphas, N., Alp, E. E., Zeng, H., Sio, C. K., Hu, J. Y., Aarons, S. M., Zhang, Z., Tian, H.-C.***, Prissel, K. B., Greer, J., Bi, W., Hu, M. Y., Shahar, A., Roskosz, M., **Teng, F.-Z.**, Krawczynski, M. J., Heck, P. R. and Spear, F. S. (2021) Iron, magnesium, and titanium isotopic fractionations between garnet, ilmenite, fayalite, biotite, and tourmaline: Results from NRIXS, ab initio, and study of mineral separates from the Moosilauke metapelite, *Geochimica et Cosmochimica Acta*, 302, 18-45. <https://doi.org/10.1016/j.gca.2021.03.014>.
122. Moynier, F., Hu, Y., Wang, K., Zhao, Y., Gerard, Y., Deng, Z., Moureau, J., Li, W., Simon, J. and **Teng, F.-Z.** (2021) Potassium isotopic composition of various samples using a collision-cell inductively coupled plasma mass spectrometer, Nu Instrument Sapphire, *Chemical Geology*, 571. 120124. <https://doi.org/10.1016/j.chemgeo.2021.120144>.
121. Hu, Y.***, **Teng, F.-Z.**, Helz, R. T. and Chauvel, C. (2021) Potassium isotope fractionation during magmatic differentiation and the composition of the mantle, *JGR-Solid Earth*. 126, e2020JB021543. <https://doi.org/10.1029/2020JB021543>.
120. Sun, Y.***, **Teng, F.-Z.** and Pang, K.-N. (2021) The presence of paleo-Pacific slab beneath northwest North China Craton hinted by low- $\delta^{26}\text{Mg}$ basalts at Wulanhada, *Lithos*, 386-387. 106009.
119. Wang, F., Xing, K.-C., Xu, W.-L., **Teng, F.-Z.**, Xu, Y.-G. and Yang, D.-B. (2021) Permian ridge subduction in the easternmost Central Asian Orogenic Belt: Magmatic record using Sr-Nd-Pb-Hf-Mg isotopes, *Lithos*, 384-385, 105966.
118. Wang, S.-J., Wang, W., Zhu, J.-M., Wu, Z., Liu, J., Han, G., **Teng, F.-Z.**, Huang, S., Wu, H., Wang, Y., Wu, G. and Li, W.-H. (2021) Nickel isotopic evidence for late-stage accretion of Mercury-like differentiated planetary embryos, *Nature Communications*, 12, 294. <https://doi.org/10.1038/s41467-020-20525-1>.
117. Hu, Y.***, **Teng, F.-Z.**, and Chauvel, C. (2021) Potassium isotopic evidence for sedimentary input to the mantle source of Lesser Antilles lavas, *Geochimica et Cosmochimica Acta*, 295, 98-111.
116. Hu, Y.** and **Teng, F.-Z.** (2021) Non-traditional stable isotope geochemistry, in Alderton, D. and Elias, S. (eds.), *Encyclopedia of Geology*, 2nd edition. Vol. 5, 114-124. United Kingdom: Academic Press. <https://doi.org/10.1016/B978-0-08-102908-4.00148-X>. [Invited contribution]
115. Li, M.Y.H.* , **Teng, F.-Z.**, and Zhou, M.-F. (2021) Phyllosilicate controls on magnesium isotopic fractionation during weathering of granites: Implications for continental weathering and riverine system, *Earth and Planetary Science Letters*, 553, 116613. <https://doi.org/10.1016/j.epsl.2020.116613>.
114. Mendybaev, R. A., Kamibayashi, M., **Teng, F.-Z.**, Savage, P. S., Georg, R. B., Richter, F. M. and Tachibana, S. (2021) Experiments quantifying elemental and isotopic fractionations during evaporation of CAI-like melts in low-pressure hydrogen and in vacuum: Constraints on thermal processing of CAIs in the protoplanetary disk, *Geochimica et Cosmochimica Acta*, 292, 557-576.

113. Hu, Y.** , **Teng, F.-Z.**, Plank, T and Chauvel, C. (2020) Potassium isotopic heterogeneity in subducting oceanic plates, *Sci. Adv.*, 6: eabb2472.
112. Chen, X.-Y.** , **Teng, F.-Z.**, Huang, K.-J. and Algeo, T. J. (2020) Intensified chemical weathering during Early Jurassic revealed by magnesium isotopes, *Geochimica et Cosmochimica Acta*, 287, 263-276.
111. Liu, Y.D., Ying, J.-F., Li, J., Sun, Y.** and **Teng, F.-Z.** (2020) Diverse origins of pyroxenite xenoliths from Yangyuan, North China Craton: implications for the modification of lithosphere by magma underplating and melt-rock interactions, *Lithos*, 372-373, 105680. <https://doi.org/10.1016/j.lithos.2020.105680>.
110. Chen, X.-Y.** , **Teng, F.-Z.**, Sánchez, W. R., Romanek, C. S., Sanchez-Navas, A. and Sánchez-Román, M. (2020) Experimental constraints on magnesium isotopic fractionation during abiogenic calcite precipitation at room temperature, *Geochimica et Cosmochimica Acta*, 281, 102-117.
109. **Teng, F.-Z.**, Hu, Y.* , Ma, J.-L., Wei, G.-J. and Rudnick, R. L. (2020) Potassium isotope fractionation during continental weathering and implications for global K isotopic balance. *Geochimica et Cosmochimica Acta*, 278, 261-271.
108. Pang, K.-N., **Teng, F.-Z.**, Sun, Y.** , Chung, S.-L. and Zarrinkoub, M. H. (2020) Magnesium isotopic systematics of the Makran arc, Iran: Implications for crust-mantle Mg isotopic balance, *Geochimica et Cosmochimica Acta*, 278, 110-121.
107. Tian H.-C.** , Zhang, C., **Teng, F.-Z.**, Long, Y.-J., Li, S.-G., He, Y.-S., Ke, S., Chen, X.-Y.** and Yang, W. (2020) Diffusion-driven extreme Mg and Fe isotope fractionation in Panzhihua ilmenite: Implications for the origin of mafic intrusion, *Geochimica et Cosmochimica Acta*, 278, 361-375.
106. Hu, Y.* , **Teng, F.-Z.** and Ionov, D. A. (2020) Magnesium isotopic composition of metasomatized upper sub-arc mantle and its implications to Mg cycling in subduction zones, *Geochimica et Cosmochimica Acta*, 278, 219-234.
105. Cuzzo, N.* , Sletten, R., Hu, Y.* , Liu, L.** , **Teng, F.-Z.** and Hagedorn, B. (2020) Silicate weathering in Antarctic Ice-rich permafrost: Insights using magnesium isotopes, *Geochimica et Cosmochimica Acta*, 278, 244-260.
104. Huang, T.-Y.* , **Teng, F.-Z.**, Rudnick, R. L., Chen, X.-Y.** , Hu, Y.* , Liu, Y.-S. and Wu, F.-Y. (2020) Heterogeneous potassium isotopic composition of the upper continental crust, *Geochimica et Cosmochimica Acta*, 278, 122-136.
103. Sun, Y.** , **Teng, F.-Z.**, Hu, Y.* , Chen, X.-Y.** and Pang, K.-N. (2020) Tracing subducted oceanic slabs in the mantle by using potassium isotopes, *Geochimica et Cosmochimica Acta*, 278, 353-360.
102. Lv, Y.* , Liu, S.-A., **Teng, F.-Z.**, Wei, G.-J. and Ma, J.-L. (2020) Contrasting zinc isotopic fractionation in two mafic-rock weathering profiles induced by adsorption onto Fe (hydr)oxides, *Chemical Geology*, 539, 119504, <https://doi.org/10.1016/j.chemgeo.2020.119504>.
101. Brewer, A.* , Harrold, Z.* , Chang, E., Gorman-Lewis, D. and **Teng, F.-Z.** (2020) Magnesium isotope fractionation during microbially enhanced forsterite dissolution, *Geobiology*, 18, 225-236. <https://doi.org/10.1111/gbi.12372>.
100. Tian H.-C.** , **Teng, F.-Z.**, Hou, Z.-Q., Tian, S.-H., Yang, W., Chen, X.-Y. and Song, Y.-C. (2020) Magnesium and lithium isotopic evidence for a remnant oceanic slab beneath central Tibet, *JGR-Solid Earth*, 125, e2019JB018197. <https://doi.org/10.1029/2019JB018197>.
99. **Teng, F.-Z.**, Wang, S.-J. and Moynier, F. (2019) Tracing the formation and differentiation of the Earth by non-traditional stable isotopes, *Science China Earth Sciences*, 62, 1702-1715.
98. Hille, M*** , Hu, Y.* , Huang, T.-Y.* and **Teng, F.-Z.** (2019) Homogeneous and heavy potassium isotopic composition of global oceans, *Science Bulletin*, 64, 1740-1742.

97. Berg, R. D.*, Solomon, E. A. and **Teng, F.-Z.** (2019) The role of marine sediment diagenesis in the modern oceanic magnesium cycle, *Nature Communications*, <https://doi.org/10.1038/s41467-019-12322-2>.
96. Su, B.-X., Hu, Y.*, **Teng, F.-Z.**, Xiao, Y., Zhang, H.-F., Sun, Y., Zhu, B., Zhou, X.-H. and Ying, J.-F. (2019) Light magnesium isotopic composition of mantle-derived lavas caused by chromite crystallization, instead of carbonatite metasomatism, *Earth and Planetary Science Letters*, 522, 79-86.
95. Huang, H.***, Niu, Y.-L., **Teng, F.-Z.**, Wang, S.-J.** (2019) Discrepancy between bulk-rock and zircon Hf isotopes accompanying Nd-Hf isotope decoupling, *Geochimica et Cosmochimica Acta*, 259, 17-36.
94. Chen, X.-Y.***, **Teng, F.-Z.** and Catling, D. (2019) Fast and precise boron isotopic analysis of carbonates and seawater using Nu Plasma II multi-collector inductively coupled plasma mass spectrometry and a simple sample introduction system. *Rapid Communications in Mass Spectrometry*, 33, 1169-1178.
93. Xu, Y.-K., Hu, Y.*, Chen, X.-Y.***, Huang, T.-Y.*, Sletten, R., Zhu, D. and **Teng, F.-Z.** (2019) Potassium isotopic composition of international geological reference materials, *Chemical Geology*, 513, 101-107.
92. Inglis, E.*, Moynier, F., Creech, J., Deng, Z., Day, J., **Teng, F.-Z.**, Bizzarro, M., Jackson, M. and Savage, P. (2019) Isotopic fractionation of zirconium during magmatic differentiation and the stable isotope composition of the silicate Earth, *Geochimica et Cosmochimica Acta*, 250, 311-323.
91. He, Y., Meng, X., Ke, S., Wu, H.*, Zhu, C., **Teng, F.-Z.**, Hoefs, J., Huang, J., Yang, W., Xu, L., Hou, Z., Ren, Z.-Y. and Li, S. (2019) A nephelinitic component with unusual $\delta^{56}\text{Fe}$ in Cenozoic basalts from eastern China and its implications for deep oxygen cycle. *Earth and Planetary Science Letters*, 512, 175-183.
90. Hu, Y.* and **Teng, F.-Z.** (2019) Optimization of analytical conditions for precise and accurate isotope analyses of Li, Mg, Fe, Cu, and Zn by MC-ICPMS, *Journal of Analytical Atomic Spectrometry*, 34, 338-346.
89. Brewer, A.*, **Teng, F.-Z.** and Dethier, D. (2018) Magnesium isotope fractionation during granite weathering, *Chemical Geology*, 501, 95-103.
88. Shen, J.*, Li, S.-G., Wang, S.-J.***, **Teng, F.-Z.**, Li, Q.-L. and Liu, Y.-S. (2018) Subducted Mg-rich carbonates into the deep mantle wedge. *Earth and Planetary Science Letters*, 503, 118-130.
87. **Teng, F.-Z.** (2018) Magnesium, in White, W. M. (Ed.), *Encyclopedia of Geochemistry*, Springer. 853-856. Doi:10.1007/978-3-319-39193-9_327-1. [Invited contribution]
86. **Teng, F.-Z.** (2018) Magnesium isotopes, in White, W. M. (Ed.), *Encyclopedia of Geochemistry*, Springer. 856-859. Doi:10.1007/978-3-319-39193-9_328-1.[Invited contribution]
85. Zhang, H.*, Wang, Y.*, He, Y., **Teng, F.-Z.**, Jacobsen, S. B., Helz, R. T., Marsh, B. D. and Huang, S. (2018) No measurable calcium isotopic fractionation during crystallization of Kilauea Iki lava lake. *Geochemistry, Geophysics, Geosystems*, 19, 3128-3139. <https://doi.org/10.1029/2018GC007506>.
84. Huang, K.-J.*, **Teng, F.-Z.**, Plank, T., Staudigel, H., Hu, Y.* and Bao, Z.-Y. (2018) Magnesium isotopic composition of altered oceanic crust and the global Mg cycle. *Geochimica et Cosmochimica Acta*, 238, 357-373.
83. Hu, Y.*, Chen, X.-Y.***, Xu, Y.-K. and **Teng, F.-Z.** (2018) High-precision analysis of potassium isotopes by HR-MC-ICPMS, *Chemical Geology*, 493, 100-108.
82. Li, W.-Y.***, **Teng, F.-Z.** and Xiao, Y. (2018) Magnesium isotope record of fluid metasomatism along the slab-mantle interface in subduction zones, *Geochimica et Cosmochimica Acta*, 237, 312-319.

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79. Chen, L.-M., **Teng, F.-Z.**, Song, X.-Y., Hu, R.-Z., Yu, S.-Y., Zhu, D. and Kang, J. (2018) Magnesium isotopic evidence for chemical disequilibrium among cumulus minerals in layered mafic intrusion, *Earth and Planetary Science Letters*, 487, 74-83.
78. Wu, H. *, He, Y., **Teng, F.-Z.**, Ke, S., Hou, Z. and Li, S. (2018) Diffusion-driven magnesium and iron isotope fractionation at a gabbro-granite boundary. *Geochimica et Cosmochimica Acta*, 222, 671-684.
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Non-peer-reviewed Publications

11. **Teng, F.-Z.** (2023) Presentation of the Goldschmidt Medal of the Geochemical Society for 2023 to Roberta L. Rudnick, *Geochimica et Cosmochimica Acta*, 361, 306 - 306.
10. Rudnick, R. L. and **Teng, F.-Z.** (2023) Presentation of the Dana Medal of the Mineralogical Society of America for 2022 to Cin-Ty Lee, *American Mineralogist*, 108, 775.
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8. Zheng, Y.-F. and **Teng, F.-Z.** (2021) The aspiration and mission of geochemistry, *Bulletin of Mineralogy, Petrology and Geochemistry (in Chinese)*, 40, 499-501.
7. **Teng, F.-Z.**, Lee, C.-T., Aulbach, S., and Liu, X.-M. (2020) The continents: Origin, evolution and interactions with other reservoirs, *Geochimica et Cosmochimica Acta*, 278, 1-5.
6. **Teng, F.-Z.** (2019) Book Review, “Encyclopedia of Geochemistry”, *Elements*, 15, 137-138.
5. **Teng, F.-Z.** and Ma, L. (2016) Deciphering isotope signatures of Earth Surface and Critical Zone processes, *Chemical Geology*, 445, 1-3.
4. **Teng, F.-Z.** (2015) Acceptance of the Mineralogical Society of America Award, *American Mineralogist*, 100, 1318-1318.
3. Sun, W., **Teng, F.-Z.**, Tatsumi, Y., Niu, Y.-L., Yang, X.-Y. and Ling, M.-X. (2014) The Subduction Factory: Geochemical perspectives, *Geochimica et Cosmochimica Acta*, 143, 1-7.
2. **Teng, F.-Z.** (2011) High-temperature fractionation of non-traditional stable isotopes, *10000 Selected Problems in Sciences (in Chinese)*, 479-482.
1. **Teng, F.-Z.** (2005) Lithium isotopic systematics of the continental crust, *Ph.D. Dissertation*, University of Maryland, College Park, MD.

Invited Talks

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| 2024 | University of California, Los Angeles |
| 2023 | The University of Hong Kong
University of Minnesota, Twin Cities |
| 2022 | V. M. Goldschmidt Conference, Hawaii
Institute of Oceanology, Chinese Academy of Sciences (virtual)
University of Washington, Seattle (Earth and Space Sciences) |
| 2021 | Jilin University (virtual) |
| 2020 | V. M. Goldschmidt 2020 Virtual Workshop “Applications of isotope tracers to geochemical kinetics studies”
The 3 rd summer school on non-traditional stable isotope geochemistry (virtual) |
| 2019 | Institute de Physique du Globe de Paris
University of Science and Technology of China
Symposium on the 111 project: Petrogenesis and continental crustal formation in collisional zones, China University of Geosciences, Beijing
Northwest University
Chang’An University
Institute of Earth Environment, Chinese Academy of Sciences |
| 2017 | International conference in memory of Prof. Bor-Ming Jahn: Asian Orogeny and Continental Evolution: New Advances from Geologic, Geophysical and Geochemical Perspectives, Taipei
China University of Geosciences, Beijing
Institute of Geology & Geophysics, Chinese Academy of Sciences |

Nanjing University
University of Nevada, Las Vegas
2016 Workshop on measurement, theories and application of non-traditional stable isotopes
V. M. Goldschmidt Conference, Japan
Academia Sinica, Taiwan, Republic of China
Chinese Academy of Geological Sciences
China University of Geosciences, Beijing
International Workshop on Multi-Well Deep Underground Laboratory in Eastern China
University of North Carolina, Chapel Hill
2014 GSA annual meeting in Vancouver
Institute of Geology & Geophysics, Chinese Academy of Sciences
The 1st summer school on non-traditional stable isotope geochemistry
University of Hong Kong
2013 University of Oregon
University of Washington, Seattle (School of Oceanography)
2012 Washington University, St Louis
University of Washington, Seattle (Earth and Space Sciences)
University of Texas, Arlington
2011 China University of Geosciences, Beijing
University of Nebraska, Lincoln
University of Texas, El Paso
University of Science and Technology of China
2010 Guangzhou Institute of Geochemistry, Chinese Academy of Sciences
University of Tulsa
Woods Hole Oceanographic Institution
2009 Scripps Institute of Oceanography
Louisiana State University
2008 7th International Sector Field ICP-MS Meeting
American Geophysical Union Spring Meeting
China University of Geosciences, Wuhan
Louisiana State University
University of Science and Technology of China
2007 Institute of Geology and Geophysics, Chinese Academy of Sciences
2006 The University of Chicago
University of Illinois at Urbana-Champaign
2005 The Field Museum of Natural History, Chicago
2004 Institute of Geology and Geophysics, Chinese Academy of Sciences
University of Science and Technology of China

External Funding (Total = 3,827,351)

- ❖ Isotope Laboratory Revenue: \$748,735 (7/2017 – 2/2024)
- ❖ NASA-Emerging Worlds, “Rubidium and potassium isotopic studies of volatile element depletion in the Early Solar System”, UW portion: \$139,251, Co-I. Duration: 10/2021 – 9/2024.
- ❖ NASA-Exobiology, “Biogeochemical studies of the early Earth and implications for life elsewhere”, \$500,000, Co-I. Duration: 2/2021 – 2/2024.
- ❖ NSF-EAR, “EAGER: Collaborative Research: Testing the marine carbonate recycling hypothesis”, \$49,636 (UW portion), Co-PI. Duration: August 2017 – July 2018.

- ❖ Natural Science Foundation of China-Collaborative Research Projects for Overseas, Hong Kong and Macao Scholars, “Magnesium isotopic constraints on the evolution of Tibetan Plateau”, ~ \$300,000, PI. Duration: January 2018 – December 2021.
- ❖ Murdock Foundation, “Trace Element Laboratory for Environmental Science”, \$826,633, Co-PI. Duration: February 2016 – January 2018.
- ❖ NASA-Exobiology, “Biogeochemical studies of the atmosphere and oceans on the early Earth”, \$488,746, Co-I. Duration: May 2015 – May 2019, with one-year no cost extension.
- ❖ NSF-EAR, “CAREER: Studies of magnesium isotope geochemistry”, \$458,928, sole PI. Duration: May 2011 – April 2017, with one-year no cost extension.
- ❖ UW-RRF, “Development of method for high-precision potassium (K) isotope analysis of terrestrial and lunar samples by MC-ICPMS” \$36,000, sole PI. Duration: September 2014 – August 2015.
- ❖ State Key Laboratory of Isotope Geochemistry, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, “Stable Sr isotopic studies of Kilauea Iki lava lake, Hawaii”, \$15,000, sole PI. Duration: October 2014 – September 2016.
- ❖ NSF-EAR, “Acquisition of micro mill for in-situ isotopic analysis of zoned minerals: A supplement request for NSF CAREER award EAR-1056713”, \$50,000, sole PI. Duration: May 2012 – June 2013.
- ❖ Arkansas Space Grant Consortium, “Constraints on Martian magmatism by studying Mg isotopic composition of Martian meteorites”, \$7,500, sole PI. Duration: May 2012 – April 2013.
- ❖ NSF-EAR, “Magnesium isotopic investigations of oceanic basalts and olivines”, \$175,022, sole PI. Duration: February 2009 – January 2013 (with one-year cost-free extension).
- ❖ Arkansas Space Grant Consortium, “Magnesium and iron isotopic investigation of lunar samples”, \$11,400, sole PI. Duration: April 2010 – April 2011.
- ❖ Natural Science Foundation of China, “Lithium and magnesium isotopic studies of adakitic rocks from North China craton”, ~\$14,500, co-PI. Duration: January 2009 – December 2012.
- ❖ Natural Science Foundation of China, “Investigations of olivine zoning in Kilauea Iki lavas”, ~\$14,500, co-PI. Duration: February 2009 – January 2011.

Other Funding (Total = \$9,900)

- ❖ 2016 The Meeting Assistance Program of the Geochemical Society, \$2,000
- ❖ 2012 Robert C. and Sandra Connor Endowed Faculty Fellowship, Fulbright College, \$1,500.
- ❖ 2011 Travel to NSF sponsored workshop “Teaching Mineralogy, Petrology and Geochemistry in the 21st Century”, \$500
- ❖ 2010 Travel to NSF sponsored workshop “Early Career Faculty in the Geosciences: Teaching, Research, and Managing Your Career”, \$500
- ❖ 2009 Teaching support, UARK, \$400
- ❖ 2008-2012 Dean’s Travel Grant, Fulbright College, \$1,000 per year

Teaching Experience

University of Washington, Seattle

- ESS 312/316: Geochemistry, Spring 2013*, 2016, 2017, 2018, 2020, 2021*, 2022, 2023, 2024
- ESS 439: Igneous Petrology, Autumn 2013, 2014; Winter 2017, 2020, 2021, 2022
- ESS 501: Geochemical Systems, Spring 2014, 2015; Autumn 2015, 2016, 2017, 2018, 2020, 2022, 2023
- ESS 590: High-Temperature Geochemistry, Winter 2014, 2015, 2018, 2023
- ESS 590: Non-Traditional Isotope Geochemistry, Winter 2016, 2024, Autumn 2021

*co-teach with John Stone

University of Arkansas, Fayetteville

Geol 2313: *Minerals and Rocks*, Fall 2009, 2010, 2011, 2012

Geol 4063: *Principles of Geochemistry*, Spring 2009, 2010, 2011, 2012

Geol 560V: *Non-Traditional Isotope Geochemistry*, Fall 2010, 2012

SPAC 5413: *Planetary Geology*, Spring 2010, 2011

University of Maryland, College Park

Geol 100 *Introduction to Physical Geology* (TA), Fall 2005

Research Advisees

At the University of Washington, Seattle

Visitors

1. Dr. Zhigang Zeng, professor, Institute of Oceanography, Chinese Academy of Sciences, 1/2024–6/2024
2. Dr. Zuxing Chen, associate professor, Institute of Oceanography, Chinese Academy of Sciences, 12/2023–6/2024.
3. Dr. Anupam Banerjee, assistant professor, Indian Institute of Science, 5/2023–8/2024.
4. Mr. Yin-Ce Ma, PhD student, Institute of Geology and Geophysics, Chinese Academy of Sciences, 5/2023–5/2024.
5. Ms. Jiyeong Lee, PhD student, Pukyong National University, 3/2023–3/2024
6. Dr. Zhigang Zeng, professor, Institute of Oceanography, Chinese Academy of Sciences, 12/2022–3/2023
7. Dr. Zuxing Chen, assistant professor, Institute of Oceanography, Chinese Academy of Sciences, 12/2022–3/2023
8. Dr. Yingkui Xu, assistant professor, Institute of Geochemistry, Chinese Academy of Sciences, 1/2020–8/2020
9. Dr. Dandan Li, lecturer, China University of Geosciences, Beijing, 11/2019–6/2020.
10. Dr. Feng Wang, associate professor, Jiling University, 9/2019–10/2019.
11. Mr. Wenshuai Li, PhD student, Univ. of North Carolina, Chapel Hill, 7/2019–8/2019.
12. Dr. Lie-Meng Chen, Professor, Institute of Geochemistry, Chinese Academy of Sciences, 6/2019–5/2020.
13. Ms. Kai-Chen Xing, PhD student, Jiling University, 6/2019–12/2019.
14. Ms. Wang-Ting Ge, PhD student, Institute of Geochemistry, Chinese Academy of Sciences, 3/2019–5/2020.
15. Mr. Xin Yang, undergraduate student, School of Earth and Space Sciences, University of Science and Technology of China, 3/2019 – 5/2019.
16. Mr. Chris Defelice, PhD student, University of Nevada, Las Vegas, 2/2019–3/2019.
17. Dr. Ming-Zhu Liu, associate professor, China University of Geosciences, Beijing, 12/2018 – 6/2020.
18. Dr. Heng-Ci Tian, assistant researcher, Institute of Geology and Geophysics, Chinese Academy of Sciences, 9/2018–9/2019.
19. Dr. Yang Sun, assistant researcher, Inst. of Earth Sciences, Academia Sinica, 7/2018–9/2018.
20. Mr. William L. Fleming, undergraduate student, Columbia University, 6/2018–8/2018.

21. Dr. Jin-Long Ma, professor, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, 6/2018–6/2018.
22. Mr. Pan Zhang, undergraduate student, Northwest University, 1/2018–4/2018.
23. Dr. Feng Wang, associate professor, Jiling University, 12/2017–12/2018.
24. Dr. Mao-Yong He, associate professor, Institute of Earth Environment, Chinese Academy of Sciences, 12/2017–12/2018.
25. Mr. Yan Hei Li., PhD student, Department of Earth Sciences, University of Hong Kong, 12/2017–3/2018.
26. Ms. Qian Ma, PhD student, China University of Geosciences, Beijing, 12/2018–3/2018.
27. Ms. Xianfang Li, graduate student, Chinese Academy of Geological Sciences, 11/2017–1/2018.
28. Ms. Jingjing Yan, PhD student, China University of Geosciences, Beijing, 9/2017–9/2018.
29. Mr. Yu Li, PhD student, Jiling University, 8/2017–2/2018.
30. Dr. Shihong Tian, professor, Chinese Academy of Geological Sciences, 7/2017–7/2019
31. Mr. Yong-Shu Huang, undergraduate student, China Univ. of Geosciences, Wuhan, 7/2017–8/2017
32. Ms. Shelby Fitch, undergraduate student, University of Nevada, Las Vegas, 7/2017–8/2017
33. Dr. Racheal Johnsen, postdoc, University of Nevada, Las Vegas, 6/2017–7/2017
34. Mr. Chris Defelice, PhD student, University of Nevada, Las Vegas, 6/2017–8/2017
35. Dr. Kang-Jun Huang, assistant professor, Northwest University, 1/2017-4/2017
36. Mr. Ning Yang, PhD student, China University of Geosciences, Beijing, 11/2016–11/2017
37. Dr. Yingkui Xu, assistant professor, Institute of Geochemistry, Chinese Academy of Sciences, 11/2016–10/2017
38. Ms. Yi-Hsuan Chiang, research assistant, Inst. of Earth Sciences, Academia Sinica, 11/2016-1/2017
39. Dr. Jin-Long Ma, associate professor, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, 11/2016–12/2016
40. Ms. Yu-Fei Liu, PhD student, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, 10/2016–4/2017
41. Dr. Ming-Xing Ling, associate professor, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, 8/2016–9/2016
42. Mr. Hebin Shao, PhD student, Tongji University/WHOI, 7/2016–9/2016
43. Dr. Lie-Meng Chen, associate professor, Institute of Geochemistry, Chinese Academy of Sciences, 2/2016–2/2017
44. Dr. Yongsheng He, associate professor, China Univ. of Geosciences, Beijing, 2/2016–2/2017
45. Dr. Jin-Long Ma, associate professor, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, 2/2016–9/2016
46. Dr. Zhuang Ruan, lecturer, China University of Geosciences, Beijing, 1/2016–1/2017
47. Mr. Hong-Jie Wu, PhD student, China University of Geosciences, Beijing, 10/2015–12/2016
48. Mr. Yang Sun, PhD student, Institute of Geology and Geophysics, Chinese Academy of Sciences, 9/2015–9/2016
49. Mr. Zhe Yang, undergraduate of China Univ. of Geosciences, Beijing, 9/2015 – 6/2016
50. Dr. Ming-Xing Ling, associate professor, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, 3/2015–6/2015
51. Dr. Kwan-Nang Pang, assistant research fellow, Institute of Earth Sciences, Academia Sinica, 3/2015-5/2015
52. Dr. Bing Shen, professor, Peking University, 1/2015-2/2015
53. Dr. Lin Dong, assistant professor, Peking University, 1/2015-2/2015
54. Dr. Weidong Sun, Professor, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, 6/2014–6/2014

55. Mr. Hai-Ou Gu, PhD student, School of Earth and Space Sciences, University of Science and Technology of China, 1/2014 – 8/2014
56. Ms. Hui Huang, PhD student, Department of Earth Sciences, Durham University, 12/2013–1/2014
57. Ms. Li Zhao, Research Assistant, Department of Earth Sciences, University of Hong Kong, 11/2013–1/2014
58. Ms. Corliss Sio, PhD student, Department of Geophysical Sciences, University of Chicago, 11/2013
59. Dr. Benxun Su, associate professor, Institute of Geology and Geophysics, Chinese Academy of Sciences, 7/2013–10/2013.
60. Mr. Johnnie Chamberlin, PhD student, ENDY, University of Arkansas, Fayetteville, 7/2013–8/2013.

Postdocs (*postdoc fellows)

1. Dr. Dingyi Zhao, postdoc visitor from the University of Hong Kong, 9/2023– present
2. Dr. Yinbiao Peng, postdoc visitor from Ocean University of China, 8/2023 – present
3. Dr. William Hoover*, 9/2021 – present (co-supervised with Cailey Condit, NSF postdoc fellow)
4. Dr. Ze-Zhou Wang, 10/2019 – 1/2024, now “Distinguished Young Scholars” professor at China University of Geosciences, Beijing.
5. Dr. Yan Hu, 11/2018 – 10/2020, now assistant professor at University of Nevada, Las Vegas
6. Dr. Xinyang Chen, 9/2017 – 4/2020, now professor at Chengdu University of Technology
7. Dr. Shui-Jiong Wang, 7/2013 – 5/2015, now professor at China University of Geosciences, Beijing, through “1000 Talents Plan” for Distinguished Young Scholars.
8. Dr. Dong-Yong Li*, postdoc visitor from School of Earth and Space Sciences, University of Science and Technology of China, 4/2018 – 10/2018, now engineer at Ocean University of China.
9. Dr. Heng-Ci Tian*, postdoc visitor from Institute of Geology and Geophysics, Chinese Academy of Sciences, 1/2018–5/2018, now associate researcher at Institute of Geology and Geophysics.
10. Dr. Yang Sun*, postdoc visitor from Inst. of Earth Sciences, Academia Sinica, 8/2017–12/2017, now assistant research professor at Southern University of Science and Technology.
11. Dr. Pingping Liu*, postdoc visitor from University of Hong Kong, 12/2014-2/2015, 11/2015–2/2016, now professor at Peking University, through “1000 Talents Plan” for Distinguished Young Scholars.
12. Dr. Kang-Jun Huang*, postdoc visitor from Peking University, 11/2014-1/2015, now professor at Northwest University.
13. Dr. Hui Huang*, postdoc visitor from China University of Geosciences, Beijing, 11/2014-5/2015, now associate professor at China University of Geosciences, Beijing.

Graduate students

1. Ms. Winnie Fan, PhD student, Winter 2023 – present
2. Mr. Pete Wynn, PhD candidate, Fall 2019 – present
3. Mr. Dalton Reynolds, Master student, 2023, now staff at Brooks Applied Labs
4. Mr. Tian-Yi Huang, PhD, 2023, now postdoc at Lawrence Berkeley National Lab
5. Mr. Aaron Brewer, PhD, 2019, now postdoc at University of Vienna
6. Ms. Yan Hu, PhD, 2018, now assistant professor at University of Nevada, Las Vegas

PhD/Master Committee members

- Mr. Peter Lindquist, Earth and Space Sciences, University of Washington, PhD candidate
- Ms. Autum Downey, Earth and Space Sciences, University of Washington, PhD candidate
- Ms. Jana Meixnerova, Earth and Space Sciences, University of Washington, PhD candidate
- Mr. Addien Wray, Earth and Space Sciences, University of Washington, PhD, 2022
- Mr. Wenshuai Li, Geological Sciences, Univ. of North Carolina, Chapel Hill, PhD, 2021
- Mr. Nicolas Cuzzo, Earth and Space Sciences, University of Washington, PhD, 2021
- Ms. Heather Hanna, Geological Sciences, Univ. of North Carolina, Chapel Hill, PhD, 2020
- Ms. Jillian Schleicher, Earth and Space Sciences, University of Washington, PhD, 2017
- Mr. Niklas Stausberg, Department of Geoscience, Aarhus University, PhD, 2017
- Mr. John Fullmer, Earth and Space Sciences, University of Washington, MS, 2015
- Ms. Corliss Sio, Department of Geophysical Sciences, University of Chicago, PhD, 2014
- Ms. Pingping Liu, Department of Earth Sciences, University of Hong Kong, PhD, 2014

Undergraduate students

- †Mary Gates Research Scholarship Awardee
- *MSA Undergraduate Prize Awardee

1. Ms. Lauren Woods, undergraduate of Univ. of Washington, 7/2023 – present
2. †Mr. Klay Wu, undergraduate of Univ. of Washington, 6/2022 – 6/2024
3. Mr. Griff Easthouse, undergraduate of Univ. of Washington, 10/2022 – 12/2023
4. Ms. Ava Kamm, undergraduate of Univ. of Washington, 10/2022 – 6/2023
5. †Ms. Anna Berg, undergraduate of Univ. of Washington, 10/2020 – 8/2023
6. Ms. Elizabeth Urban, undergraduate of Univ. of Washington, 1/2020 – 6/2020
7. Ms. Emily Bundick, undergraduate of Univ. of Washington, 11/2018 – 6/2019
8. Ms. Lucy Jiang, undergraduate of Univ. of Washington, 10/2018 – 6/2019
9. †Mr. Bing Yu Lee, undergraduate of Univ. of Washington, 9/2018 – 6/2019
10. †*Ms. Madeline Hille, undergraduate of Univ. of Washington, 1/2017 – 6/2019
11. Ms. Yangfan Ling, undergraduate of Univ. of Washington, 9/2017 – 6/2018
12. Mr. Esten King, undergraduate of Univ. of Washington, 3/2017 – 3/2018
13. †*Ms. Peiyu Wu, undergraduate of Univ. of Washington, 9/2016 – 6/2018
14. †Ms. Mary Benson, undergraduate of Univ. of Washington, 9/2016 – 6/2017
15. †Ms. Khadijah Homolka, undergraduate of Univ. of Washington, 5/2014 – 1/2017
16. Ms. Jiarui Zhou, undergraduate of Univ. of Washington, 5/2014 – 6/2016
17. Mr. Joel Atwood, undergraduate of Univ. of Washington, 1/2015 – 6/2015
18. Mr. Patrick Watts, undergraduate of Univ. of Washington, 1/2015 – 6/2015
19. Mr. Daryn White, undergraduate of Univ. of Washington, 11/2014 – 6/2015
20. †Ms. Florence Yuen, undergraduate of Univ. of Washington, 10/2013 – 6/2015
21. Mr. Taylor Kenya, undergraduate of Univ. of Washington, 1/2014 – 12/2014
22. Mr. Lucas Holloway, undergraduate of Univ. of Washington, 8/2013 – 6/2014
23. †Ms. Melissa Harrington, undergraduate of Univ. of Washington, 5/2013– 6/2014

High school students

1. Mr. Jayden Zhang, Eastside Catholic High School, 6/2022-8/2022
2. Mr. Kesler Lee, Interlake High School, 7/2021-1/2022
3. Ms. Amanda Li, Bellevue High School, 7/2019-8/2019
4. Ms. Katharine Zhang, Eastside Catholic High School, 7/2019-8/2019
5. Ms. Maggie Jiang, Juanita High School, 7/2018-8/2018

6. Ms. Mariya Haveliwala, The Overlake School, 7/2018-8/2018
7. Ms. Elijah Lorraine Tugate, Rainier Beach High School, 6/2017-9/2017
8. Mr. Kevin Ma, Bellevue High School, 6/15 – 8/15; 6/16 – 8/16; 7/17-9/17
9. Mr. Mark Liu, Redmond High School, 7/2016 – 8/2016
10. Mr. Grant Libby, Louisiana School for Math, Science and the Arts, 6/2015 – 7/2015
11. Mr. Alex Yang, Inglemoor High School, 6/2014 – 8/2014

At the University of Arkansas, Fayetteville

Postdoc visitors

1. Dr. Shan, Ke, lecturer of School of Earth Science and Mineral Resources, China University of Geosciences, 6/2009–7/2010, now associate professor at China University of Geosciences.
2. Dr. Wang-Ye Li, postdoc researcher of School of Earth and Space Sciences, University of Science and Technology of China, 3/2009–10/2009; 4/2010–8/2010; 10/2012–12/2012, now associate professor at University of Science and Technology of China
3. Dr. Ming-Xing Ling, postdoc researcher of Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, 10/2010–4/2011, now professor at Guangzhou Institute of Geochemistry.
4. Dr. Yan Xiao, postdoc researcher of Institute of Geology and Geophysics, Chinese Academy of Sciences, 12/2010–5/2011, now associate professor at Institute of Geology and Geophysics.
5. Dr. Wei Yang, postdoc researcher of Institute of Geology and Geophysics, Chinese Academy of Sciences, 9/2008–12/2008; 3/2010–6/2010, now professor at Institute of Geology and Geophysics.

PhD students

1. Ms. Fatemeh Sedaghatpour, SPAC program, PhD, 2012, now at Advion, Inc.
2. Mr. Johnnie Chamberlin, ENDY program, 8/2011 – 12/2012, now environmental industry
3. Ms. Yan Hu, Geosciences program, 8/2012 – 12/2012, now assistant professor at University of Nevada, Las Vegas.

PhD exchange students

1. Mr. Sheng-Ao Liu, PhD exchange student, Univ. of Sci. & Tech. of China, 9/2009 – 9/2010, now professor at China University of Geosciences, Beijing.
2. Mr. Kang-Jun Huang, PhD exchange student, China Univ. of Geosciences, 3/2011-12/2012, now professor at Northwest University.
3. Mr. Shuijiong Wang, PhD exchange student, China Univ. of Geosciences, 11/2011-12/2012, now professor at China University of Geosciences, Beijing, through “1000 Talents Plan” for Distinguished Young Scholars.

PhD student visitors

1. Mr. Xiao-Wei Li, PhD student, Peking University, 2/2012-5/2012. Now associate professor at China University of Geosciences, Beijing.
2. Ms. Yan Hu, PhD student from Institute of Geology and Geophysics, Chinese Academy of Sciences, 4/2011-8/2011, now assistant professor at the University of Nevada, Las Vegas.
3. Ms. Corliss Sio, PhD student, Department of Geophysical Sciences, University of Chicago, 4/2011-5/2011, now assistant professor at the University of Toronto.
4. Ms. Xiaoming Liu, PhD student, Department of Geology, University of Maryland, 5/11-6/11, now assistant professor at the University of North Carolina, Chapel Hill.
5. Mr. Hai-Ou Gu, PhD student, Univ. of Sci. & Tech. of China, 9/2012 – 12/2012, now lecturer at Hefei University of Technology.

Master students

1. Mr. Jeff L. Ward, Geosciences, 2008 - 2001
2. Mr. Eric Grulke, Geosciences, summer intern, 2009
3. Ms. Julie Jacobs, Geosciences, summer intern, 2010
4. Ms. Leiaka Welcome, Geosciences, summer intern, 2010
5. Mr. Eben Jones, Geosciences, summer intern, 2011
6. Mr. Elvis Bello, Geosciences, summer intern, 2011

Undergraduate students

1. Ms. Kaia Mattioli, undergraduate of Stanford University, summer intern, 2008
2. Ms. Misty Trinkle, undergraduate of Univ. of Arkansas, 8/2009 – 12/2009
3. Mr. Colin Brooks, undergraduate of Univ. of Arkansas, 6/2009 - 5/2010
4. Mr. Dale Stendel, undergraduate of Univ. of Arkansas, 6/2010 – 10/2010
5. Ms. Anna Rouse, undergraduate of Univ. of Arkansas, 7/2010 – 10/2010
6. Ms. Chven Mitchell, undergraduate of Univ. of Arkansas, 8/2010 – 11/2010
7. Ms. Oanh H. Nguyen, undergraduate of Univ. of Arkansas, 8/2009 – 12/2010
8. Ms. Crystal Countee, undergraduate of Univ. of Arkansas, 8/2010 – 12/2010
9. Ms. Addie Clark, undergraduate of Emory & Henry College, REU 2010
10. Ms. Suzi Gordon, undergraduate of Florida Institute of Technology, REU 2010
11. Mr. Brendan Clement, undergraduate of Keene State College, REU 2011
12. Ms. Debra Davis, undergraduate of Univ. of Arkansas, 9/2010 – 5/2011
13. Mr. Anthonini Francaviglia, undergraduate of Univ. of Arkansas, 9/2010 – 5/2011
14. Ms. Clara Kirk, undergraduate of Univ. of Arkansas, 9/2010 – 5/2011
15. Ms. Debra A. Wallace, undergraduate of Univ. of Arkansas, 8/2009 – 5/2012
16. Mr. David Nance, undergraduate of Univ. of Arkansas, 8/2010 – 5/2012
17. Ms. Gabby Salinas, undergraduate of Univ. of Arkansas, 9/2011 – 5/2012
18. Mr. Rodney Ballard, undergraduate of Univ. of Arkansas, Pine Bluff, REU 2012
19. Mr. Janvier Kwizera, undergraduate of Univ. of Arkansas, 10/2010 – 5/2012
20. Ms. Melissa Hornick, undergraduate of Univ. of Arkansas, 9/2011 – 12/2012
21. Mr. Ryan Rowley, undergraduate of Univ. of Arkansas, 1/2012 – 5/2012
22. Mr. Evan Thaler, undergraduate of Univ. of Arkansas, 9/2012 – 12/2012

At The University of Chicago

Ms. Myriam Alexandre, undergraduate, co-advised w/ Nicolas Dauphas

At the University of Maryland, College Park

1. Ms. Elena Chung, undergraduate, co-advised w/ Roberta Rudnick
2. Ms. Dusty Aeiker, undergraduate, co-advised w/ Bill McDonough

Professional Service

Editorial Responsibilities

Co-Editor in Chief, *Earth and Planetary Science Letters*, 2024 to present.

Editor, *MSA/GS Reviews in Mineralogy & Geochemistry*, vol. 82, 2017.

Editor, *Solid Earth Sciences*, 2015 to 2023.

Associate Editor, *Geochimica et Cosmochimica Acta*, 2014 to present.
Associate Editor, *JGR - Solid Earth*, 2018 to 2024.
Associate Editor, *American Mineralogist*, 2014 to 2024.
Associate Editor, *Frontiers in Earth Sciences*, 2015 to 2023.
Associate Editor, *Science Bulletin*, 2014 to 2017.

Editorial Board, *Geostandards and Geoanalytical Research*, 2014 to present.
Editorial Board, *Science China*, 2012 to present.
Editorial Board, *Journal of Asian Earth Sciences*, 2017 to 2024.
Editorial Board, *Earth and Planetary Science Letters*, 2022 to 2024.

Guest editor: **Teng, F.-Z.** and Wu, F.-Y. Himalayan Leucogranites, special issue of *Elements*, 2024.
Guest editor: Oliver Roche (Lead Guest Editor), Other Guest Editors (alphabetical order): Yosuke Aoki, Nikolai Bagdassarov, Michael Heap, Sigrun Hreinsdottir, Qinghua Huang, Daniel Pastor-Galan, Michael Poland, Maria Sachpazi, **Teng, F.-Z.** and Gregory Waite. Advances in understanding volcanic processes, special issue of *JGR - Solid Earth*, ongoing.
Guest editor: **Teng, F.-Z.** and Alagappan, Ramanathan. Strontium Isotope Geochemistry, special issue of *Frontiers in Earth Sciences*, 2022.
Guest editor: **Teng, F.-Z.**, Lee, C.-T., Aulbach, S., and Liu, X.-M. The continents: Origin, evolution and interactions with other reservoirs, special issue of *Geochimica et Cosmochimica Acta*, 2020.
Guest editor: **Teng, F.-Z.** and Ma, L., Deciphering isotope signatures of Earth Surface and Critical Zone Processes, special issue of *Chemical Geology*, 2016.
Guest editor: Sun, W., **Teng, F.-Z.**, Tatsumi, Y. Niu, Y.-L., Yang, X.-Y. and Ling, M.-X, The Subduction Factory: Geochemical perspectives, special issue of *Geochimica et Cosmochimica Acta*, 2014.

Professional Society Committees

Mineralogical Society of America Committee for Short Courses (2024 - present)
Geochimica Cosmochimica Acta Executive Editor Search Committee (2023)
Joint Publication Committee of the Geochemical Society and the Meteoritical Society (2022- present)
Shen-su Sun Award Committee (2021-present)
AGU Kuno Award Committee (2021-present)
Mineralogical Society of America Award Committee (2018-2020)
AGU VGP Student Awards Committee (2013-2015)
AGU Fall Meeting Student Travel Grant Reviewer (2013-2015)
Team Member, Theme 08 Melts, Glasses, Magmas, Goldschmidt conference, 2014
Judge, Student Presentation Awards, Goldschmidt conference, 2012
Dwornik judging volunteer, Lunar and Planetary Science Conference, 2011

International Conference Convener

Session convener on “Planets from the inside out: Celebrating Dr. William F. McDonough's contributions to (extra)terrestrial geochemistry and beyond”, Goldschmidt conference, 2024
Session convener on “Understanding basaltic volcanism on Earth and other planets”, Goldschmidt conference, 2023
Session convener on “Evolution of Earth’s Surface: a session in honor of Xiaoming Liu, recipient of the 2021 MGPV Division’s Early Geological Career Award”, GSA Annual Meeting, 2021

Session convener on “The continents: Origin, evolution and interactions with other reservoirs”, Goldschmidt conference, 2018
Session convener on “Tracing crust-mantle interactions by using non-traditional stable isotopes”, Goldschmidt conference, 2017
Session convener on “Measurements, theories, and applications of non-traditional stable isotopes”, Fall AGU, 2016
Session convener on “Weathering and erosion: quantifying and elucidating Earth surface processes in the Critical Zone and sedimentary records”, Goldschmidt conference, 2016
Session convener on “Deciphering isotope signatures of Earth surface and critical zone processes”, Fall AGU, 2014
Session convener on “Tracing magmatic processes by using non-traditional isotope geochemistry”, Goldschmidt conference, 2014
Session convener on “Developments and applications of non-traditional stable isotope geochemistry”, Fall AGU, 2013
Session convener on “Recent developments and applications of non-traditional stable isotope geochemistry in Earth and planetary materials”, Goldschmidt conference, 2012
Session convener on “Recent advances in non-traditional isotope geochemistry”, Fall AGU, 2009
Session convener on “Recent advances in lithium isotope geochemistry”, Fall AGU, 2008

Workshop leader and presenter

Workshop leader, “Measurement, theories and application of non-traditional stable isotopes”, Lawrence Berkeley National Lab, December 2016 (two days, >100 attendees)
Workshop leader, “The 1st summer school on non-traditional stable isotope geochemistry”, China University of Geosciences, Beijing, July 2014 (10 days, >300 attendees)
Workshop presenter, “Potassium isotope geochemistry” in the 3rd summer school on non-traditional stable isotope geochemistry, Northwest University, Xian, August 2020 (virtual)
Workshop presenter, “MC-ICP-MS theory and practical implications” in the 7th International Sector Field ICP-MS Meeting, 2008 (2 hour lecture)

Reviewer

Textbook proposal “Geochemistry” by William M. White

NASA Solar System Workings Panelist (2018)

NASA NPP Review Panelist (2023)

Proposals for NSF (47), NSF postdoc fellowship (2), NASA postdoc fellowship (17), NASA (3), Natural Environment Research Council (1), Austrian Science Fund (1), Netherlands Space Office (1), The Fund for Scientific Research-FNRS (Belgium) (2), NSF of China (2), ACS PRF (3) and UW RRF (3)

Manuscripts for *Science* (4), *Proceedings of the National Academy of Sciences* (3), *Nature Geoscience* (6), *Science Advances* (1), *Nature Communications* (2), *Earth and Planetary Science Letters* (24), *Geochimica et Cosmochimica Acta* (33), *Geochemical Perspectives Letters* (2), *Geology* (6), *National Science Review* (1), *GSA Bulletin* (1), *Chemical Geology* (16), *Geochemistry, Geophysics, Geosystems* (4), *Treatise on Geochemistry* (1), *Contributions to Mineralogy and Petrology* (4), *Journal of Geophysical Research – Solid Earth* (3), *Lithos* (4), *Gondwana Research* (1), *Geological Journal* (1),

Journal of Analytical Atomic Spectrometry (1), *Journal of Geostandards and Geoanalytical Research* (6), *Science China – Earth Sciences* (2), *Journal of Geosciences* (1), *Journal of Geology* (1), *Analytical Letters* (1) and *Acta Petrologica Sinica* (2)

AGU Student Travel Grant Reviewer (2013, 2014, 2015)

University Service at University of Washington, Seattle

- The Mary Gates Research Scholarship review committee (2017, 2018, 2020, 2021, 2022, 2023)

College Service at University of Washington, Seattle

- College of the Environment DEI Task Force, member (2021-2022)
- College of the Environment Curriculum Committee, member (2017-2018)
- College of the Environment Awards Committee, member (2016)

Department Service at University of Washington, Seattle

- Associate Chair (2023- present)
- Graduate Program Coordinator (2023- present)
- Executive Committee, member (2023- present)
- PhD Admissions Committee, member (2023-2024)
- Planetary sciences Research Faculty Search (2023)
- PhD Admissions Committee, member (2022-2023)
- Graduate Preliminary Exam Committee (2022)
- DEI Committee, Chair (2021-2022)
- Igneous Petrology Faculty Search Committee, member (2021-2022)
- ESS Safety Committee, Faculty Representative (2021- 2022)
- Graduate Preliminary Exam Committee (2021)
- Executive Committee, member (2020-2021)
- Planetary Sciences Faculty Search Committee, member (2021)
- PhD Admissions Committee, member (2020-2021)
- PhD Admissions Committee, member (2019-2020)
- Bassett & Barksdale Awards Committee, member (2018)
- Curriculum Committee, Chair (2017-2018)
- Subduction Zone Geology Faculty Search Committee, member (2017-2018)
- Curriculum Committee, Member (2014-2017)
- Research Gala awards committee (2017)
- Graduate Preliminary Exam Committee (2017)
- Research Gala awards committee (2013, 2014, 2016, 2017)
- Barksdale Distinguished Service Award Committee, member (2016)
- Graduate Preliminary Exam Committee (2016)
- Research Gala awards committee (2016)
- PhD Admissions Committee, member (2015-2016)
- Barksdale Distinguished Service Award Committee, Chair (2015)
- Geobiology Faculty Search Committee, member (2014-2015)
- Executive Committee, member (2013-2015)
- Field Camp Committee, Chair (2014)

- Organizer of Mindlin Lecture (2014)
- Colloquium Coordinator (Spring quarter, 2014)
- Research Gala awards committee (2014)
- PhD Admissions Committee, member (2013-2014)
- Graduate Preliminary Exam Committee (2013)
- Research Gala awards committee (2013)
- Barksdale Distinguished Service Award Committee, member (2013)

Department Service at University of Arkansas, Fayetteville

- Geosciences Department Library Representative for Geology side (2011 – 2012)
- Geology Teaching Assistant Selection Committee member (2011 – 2012)
- Search Committee member for “The Maurice F. Storm Endowed Chair in Petroleum Geology” position, 2011
- Search Committee member for “Geochemistry Assistant Professor” position, 2010

Memberships in Professional Societies

American Geophysical Union; Geochemical Society; Mineralogical Society of America; Geological Society of America; American Association for the Advancement of Science

Graduate and post-doctoral advisors

Drs. W. F. McDonough and R. L. Rudnick – PhD supervisors, Univ. of Maryland, College Park
 Dr. M. Wadhwa – Post-doctoral supervisor, Field Museum (now at Arizona State University)
 Drs. N. Dauphas and F. M. Richter – Post-doctoral supervisors, The University of Chicago