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Bio	Research & Scholarship	Teaching	Publications
			<h3>Publications</h3> <ul style="list-style-type: none"> ■ (in press) Reservoir oxidation by geologically sequestered CO₂. <i>Geochim. Cosmochim. Acta</i> Nielsen, L. C., Maher, K., Brown, Jr., G. E., Bird, D. K., Thomas, B., Johnson, N. C., Rosenbauer, R. J. 2105 ■ As(III) and As(V) speciation during transformation of lepidocrocite to magnetite. <i>Environmental Science & Technology</i> Wang, Y., Morin, G., Ona-Nguema, G., Brown, Jr., G. E. 2015; 48 (24): 14282-14290 ■ (submitted) Goethite aging explains Ni depletion in upper units of ultramafic lateritic ores from New Caledonia. <i>Geochimica et Cosmochimica Acta</i> Dublet, G., Juillot, F., Morin, G., Fritsch, E., Fandeur, D., Brown, Jr., G. E. 2015 ■ (in press) The role of the Si-rich surface layer in forsterite dissolution. 2: An “ion-by-ion” model for dissolution and Mg isotope fractionation. <i>Geochimica et Cosmochimica Acta</i> Maher, K., Nielsen-Lammers, L. C., Johnson, N. C., Torchinsky, A. B., Weaver, K. I., Bird, D. K., Brown, Jr., G. E. 2015 ■ (in press) Ni cycling in mangrove sediments from New Caledonia. <i>Environmental Science & Technology</i> Noel, V., Morin, G., Juillot, F., Marchand, C., Brest, J., Bargar, J. R., Munoz, M., Marakovic, G., Ardo, S., Brown, Jr., G. E. 2015 ■ Stable Hg isotope signatures in creek sediments impacted by a former Hg mine. <i>Environmental Science & Technology</i> Smith, R. S., Wiederhold, J. G., Jew, A. D., Brown, Jr., G. E., Bourdon, B., Kretzschmer, R. 2015; 49 (2): 767-776 ■ (submitted) The role of the Si-rich layer in forsterite dissolution. 3: Spatially and temporally resolved incorporation of an isotopic tracer. <i>Geochimica et Cosmochimica Acta</i> Johnson, N. C., Rosenbauer, R. J., Bird, D. K., Brown, Jr., G. E., Chidsey, C. E., Maher, K. 2015 ■ Small-scale studies on roasted ore waste reveal extreme ranges of mercury isotope signatures <i>Geochimica et Cosmochimica Acta</i> Smith, R. S., Wiederhold, J. G., Jew, A. D., Brown, Jr., G. E., Bourdon, B., Kretzschmar, R. 2014; 137: 1-17 ■ Integrated approaches of x-ray absorption spectroscopic and electron microscopic techniques in zinc speciation and characterization in a final sewage sludge product <i>J. Environ. Qual.</i> Kim, B., Levard, C., Murayama, M., Brown, Jr., G. E., Hochella, Jr., M. F. 2014; 43 (3): 908-916 ■ Preparation, structure, and orientation of single crystal pyrite FeS₂(100) <i>J. Phys. Chem. C</i> Andersson, K., Ogasawara, H., Kendelewicz, T., Brown, Jr., G. E., Nilsson, A. 2014; 118 (38): 21896-21903 ■ Sulfidation of copper oxide nanoparticles and properties of the resulting copper sulfide <i>Environmental Science: Nano</i> Ma, R., Stegemeier, J., Levard, C., Dae, J. D., Yang, T., Brown, Jr., G. E., Lowry, G. V. 2014; 1 (4): 347-357 ■ Properties of impurity-bearing ferrihydrites III. Effects of Si and precipitation rate on the structure of 2-line ferrihydrite <i>Geochimica Cosmochimica Acta</i> Cismasu, A. C., Michel, F. M., Tcaciuc, A. P., Brown, Jr., G. E. 2014; 133: 168-185 ■ Competitive adsorption of Pb(II) and Zn(II) at polyacrylic acid-coated aluminum oxide surfaces <i>Environmental Science & Technology</i> Wang, Y., Michel, F. M., Levard, C., Choi, Y., Eng, P. J., Brown, Jr., G. E. 2014; 47: 12131-12139 ■ Olivine carbonation kinetics. Part 1. Inhibition of the reaction by SiO₂ <i>Chemical Geology</i> Johnson, N. C., Thomas, B., Maher, K., Bird, D., Rosenbauer, R. J., Brown, Jr., G. E. 2014; 373: 95-

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