

REFEREED JOURNAL PUBLICATIONS – PUBLISHED/IN PRESS

Bold face indicates Simonetti and individual under Simonetti's mentorship including: (*) undergraduate students, (@) graduate students, and (+) postdoctoral research associates.

- [J-178] **Simonetti A**, Buzon MR, Guilbault KA, Simonetti SS (2024). The Role of Post-Mortem Alteration in Tooth Enamel Revisited: A Combined Strontium Isotope and Geochemical Evaluation. *Journal of Archaeological Science: Reports*, **53**:104323. DOI:10.1016/j.jasrep.2023.104323.
- [177] Zhao H, **Simonetti A**, Simonetti S, Cao X, Du Y (2024). A geochemical and isotopic investigation of carbonatites from Huangshuian, Central China: Implications for petrogenesis and mantle sources. *Minerals*, **14**:953. DOI.org/10.3390/min14090953.
- [J-176] Spencer N, Binder M, Buzon M, Woodward J, Macklin M, **Simonetti A** (2024). Maintaining the Ramesside Empire: Isotopic evidence for elite migration to Upper Nubia under Pharaonic rule. *Journal of African Archaeology*, DOI:10.1163/21915784-bja10033.
- [J-175] Çimen O, Gücer MA, Akal C, Göncüoğlu MC, Arslan M, **Simonetti A**, Karaöğlan F (2024). Revisiting the depositional age and provenance characteristics of metasedimentary rocks from the basement units in the Central Pontides (N Turkey): New constraints for tectonic evolution of the southern Black Sea region. *Journal of Asian Earth Sciences*, **266**:106134. DOI:10.1016/j.jseaes.2024.106134.
- [J-174] **Simonetti A**, Buzon MR, Simonetti SS, Guilbault KA, Ahmed Kordofani M, Miller N (2023). Assessing the Impact of Holocene Climate Change on Bioavailable Sr Within the Nile River Valley: Geochemical and Radiogenic Isotope Perspectives. *Bioarchaeology International*, DOI: 10.5744/bi.2022.0024.
- [J-173] Buzon MR, Guilbault KA, **Simonetti A** (2023). Exploring intersectional identities and geographic origins in ancient Nubia at Tombos, Sudan. Thematic Issue: Integrating Chemical Isotopes and Critical Theory in Bioarchaeology by guest editors, Sara L. Juengst and Matthew C. Velasco. *Bioarchaeology International*, DOI: 10.5744/bi.2022.0029.
- [J-172] de Assis Janasi V, Martins L, Alves A, **Simonetti A**, Henrique-Pinto R (2023). The Neoproterozoic Agudos Grandes granitic batholith, SE Brazil: Inferences on source areas from elemental and Sr-Nd-Pb isotope geochemistry. *Journal of South American Earth Sciences*, doi: <https://doi.org/10.1016/j.jsames.2023.104570>.
- [J-171] Cordeiro P, Matias dos Santos A, Steed G, de Araújo Silva A, Meere P, Corcoran L, **Simonetti A**, Unitt R (2023). The carbonate-hosted Gortdrum Cu-Ag(±Sb-Hg) deposit, SW Ireland: C-O-Sr-Nd isotopes and whole-rock geochemical signatures. *Journal of Geochemical Exploration*, **248**: 107196.

- [J-170] Valeriano C, Turbay C, Bruno H, **Simonetti A**, Heilbron M, Bersan S, Strachan R (2022). Paleo- and Mesoarchean TTG-sanukitoid to high-K granite cycles in the southern São Francisco craton, SE Brazil. *Geoscience Frontiers*, **13**: 101372.
- [J-169] Almeida VV, de Assis Janasi V, Faleiros FM, **Simonetti A**, Moraes R (2022). Composition and thermal evolution of the lithospheric mantle beneath the Ribeira Belt, SE Brazil: Evidence from spinel peridotite xenoliths. *International Journal of Earth Sciences*, **111**: 1057–1077.
- [J-168] **Kuebler, C@**, **Simonetti A**, Simonetti SS, Martin RF (2022). Boron isotope compositions establish the origin of marble from metamorphic complexes: Québec, New York, and Sri Lanka. *American Mineralogist*, **107**: 15–30.
- [J-167] **Çimen O⁺**, Hasim A, **Kuebler C@**, **Simonetti A**, **Corcoran L⁺**, Simonetti S, Çolak T, Inal S, Donmez C (2022). Geochemical, isotopic and U-Pb geochronological investigation of the late Cretaceous Karaçayır carbonatite (Sivas, Turkey): Insights into mantle sources within a post-collisional tectonic setting. *Ore Geology Reviews*, **141**: 104650.
- [J-166] Lu J, Chen W, Zhang W, Liu H, **Simonetti A**, Hu Z, Liu Y, Zhao K, Jiang S (2022). Determination of carbon isotopes in carbonates (calcite, dolomite, magnesite, and siderite) by femtosecond laser ablation multi-collector ICP-MS. *Journal of Analytical Atomic Spectrometry*, DOI: 10.1039/d1ja00356a.
- [J-165] **Simonetti A**, Buzon MR, **Corcoran L⁺**, Breidenstein AM, Emberling G (2021). Trace element and Pb and Sr isotope investigation of tooth enamel from archaeological remains at El-Kurru, Sudan: Evaluating the role of groundwater-related diagenetic alteration. *Applied Geochemistry*, **132**: 105068. <https://doi.org/10.1016/j.apgeochem.2021.105068>.
- [J-164] Cooper HK, **Simonetti A** (2021). Lead Isotope Analysis of Geological Native Copper: Implications for Archaeological Provenance Research in the North American Arctic and Subarctic. *Minerals*, **11**: 667 <https://doi.org/10.3390/min11070667>.
- [J-163] Banerjee A, Chakrabarti R, **Simonetti A** (2021). Temporal evolution of $\delta^{44/40}\text{Ca}$ and $^{87}\text{Sr}/^{86}\text{Sr}$ of carbonatites: implications for crustal recycling through time. *Geochimica et Cosmochimica Acta*, **307**: 168–191.
- [J-162] Silva AA, Cordeiro P, Johnson SC, Lagoeiro LE, **Corcoran L⁺**, **Simonetti A**, Meere P, Unitt R, Stingelin L, Santos AM (2021). The Carbonate-Hosted Tullacondra Cu-Ag Deposit, Mallow, Ireland. *Minerals*, **11**: 560. <https://doi.org/10.3390/min11060560>.
- [J-161] Smart KA, Tappe S, Woodland AB, Harris C, **Corcoran L⁺**, **Simonetti A** (2021). Metasomatized eclogite xenoliths from the central Kaapvaal craton as probes of a seismic mid-lithospheric discontinuity. *Chemical Geology*, **578**: 120126.

- [J-160] Lu J, Chen W, Jiang S-Y, Zhao K-D, **Simonetti A**, Pi D-H (2021). In-situ sulfur isotopic analysis of sulfate by laser ablation multiple collector inductively coupled plasma mass spectrometry (LA-MC-ICP-MS). *Atomic Spectroscopy*, **41**: 223-233.
- [J-159] **Kuebler C[@]**, **Simonetti A**, Chen W, Simonetti SS (2020). Boron isotopic investigation of the Bayan Obo carbonatite complex: Insights into the source of mantle carbon and hydrothermal alteration. *Chemical Geology*, **557**: 119859.
- [J-158] **Çimen O⁺**, **Corcoran L⁺**, **Kuebler C[@]**, Simonetti SS, **Simonetti A** (2020). Geochemical, stable (O, C and B) and radiogenic (Sr, Nd, Pb) isotopic data from the Eskişehir-Kızılcacören (NW-Anatolia) and the Malatya-Kuluncak (E-central Anatolia) F-REE-Th deposits, Turkey: Implications for nature of carbonate-hosted mineralization. *Turkey Journal of Earth Sciences*, **29**: 798-814.
- [J-157] Ying Y-C, Chen W, **Simonetti A**, Jiang S-Y, Zhao K-D (2020). Significance of hydrothermal reworking for REE mineralization associated with carbonatite: Constraints from in situ trace element and C-Sr isotope study of calcite and apatite from the Miaoya carbonatite complex (China). *Geochimica et Cosmochimica Acta*, **280**: 340-359.
- [J-156] **Corbett E[@]**, **Simonetti A**, Shaw P, **Corcoran L⁺**, Crowley QC, Hoare B (2020). Shallow sampling by multi-shot laser ablation and its application within U-Pb zircon geochronology. *Chemical Geology*, **544**: 119568.
- [J-155] **Dorais C[@]**, **Simonetti A**, **Corcoran L⁺**, **Spano TL⁺**, Burns PC (2020). Happy Jack uraninite: a new reference material for high spatial resolution analysis of U-rich matrices. *Geostandards and Geoanalytical Research*, **44**: 125-132.
- [J-154] **Corcoran L⁺** and **Simonetti A** (2020). Geochronology of uraninite revisited. *Minerals, Special Issue: Nuclear Forensic Applications in Geoscience and Radiochemistry*, **10**: 205.
- [J-153] **Lewis SR[@]**, **Simonetti A**, **Corcoran L⁺**, Simonetti SS, **Dorais C[@]**, Burns PC (2020). The role of continental crust in the formation of uraninite-based ore deposits. *Minerals, Special Issue: Nuclear Forensic Applications in Geoscience and Radiochemistry*, **10**: 136.
- [J-152] Chen W, Liu H-Y, Lu J, Jiang S-Y, **Simonetti A**, Xu C, Zhang W (2020). The formation of the ore-bearing dolomite from the giant Bayan Obo REE-Nb-Fe deposit, Inner Mongolia: Insights from micron-scale geochemical data. *Mineralium Deposita*, **55**: 131–146.
- [J-151] **Çimen O⁺**, **Kuebler C[@]**, Simonetti SS, **Corcoran L⁺**, Mitchell R, **Simonetti A** (2019). Combined boron, radiogenic (Nd, Pb, Sr), stable (C, O) isotopic and geochemical investigations of carbonatites from the Blue River Region, British Columbia (Canada): Implications for mantle sources and recycling of crustal carbon. *Chemical Geology*, **529**: 119240.
- [J-150] **Corcoran L⁺**, **Simonetti A**, **Spano TL⁺**, **Lewis SR[@]**, **Dorais C[@]**, Simonetti S, Burns PC (2019). Multivariate analysis based on geochemical, isotopic, and mineralogical

compositions of uranium-rich samples. *Minerals, Special Issue: Nuclear Forensic Applications in Geoscience and Radiochemistry*, **9**: 537.

- [J-149] **Spano TL⁺**, **Simonetti A**, **Corcoran L⁺**, Smith PA, **Lewis S[@]**, Burns PC (2019). Comparative Chemical and Structural Analysis of Two Uranium Dioxide Fuel Pellets. *Journal of Nuclear Materials*, **518**: 149-161.
- [J-148] **Vilalva FCJ[@]**, **Simonetti A**, Vlach SRF (2019). Insights on the origin of the Graciosa A-type granites and syenites (Southern Brazil) from zircon U-Pb geochronology, chemistry, and Hf and O isotope compositions. *Lithos*, **340-341**: 20-33.
- [J-147] Heilbron M, Olivera C, Lobato M, Valeriano de Morisson C, Dussin I, Dantas E, **Simonetti A**, Bruno H, Corrales F, Socoloff E (2019). The Barreiro suite in the central Ribeira Belt (SE-Brazil): A late Tonian tholeiitic intraplate magmatic event in the distal passive margin of the São Francisco Palecontinent. *Brazilian Journal of Geology*, **49(2)**: e20180129.
- [J-146] Lamere E, Couder M, Beard M, Simon A, Simonetti A, Skulski M, Seymour G, Huestis P, Manukyan K, Meisel Z, Morales L, Moran M, Moylan S, Seymour C, Stech E (2019). Proton-induced reactions on molybdenum. *Physical Review C* **100**, 034614 1-13.
- [J-145] Schrader SA, Buzon MR, **Corcoran L⁺**, **Simonetti A** (2019). Intraregional ⁸⁷Sr/⁸⁶Sr variation in Nubia: New insights from the Third Cataract. *Journal of Archaeological Science: Reports*, **24**: 373-379.
- [J-144] **Çimen O⁺**, **Kuebler C[@]**, **Monaco B^{*}**, Simonetti SS, **Corcoran L⁺**, Chen W, **Simonetti A** (2018). Boron, carbon, oxygen and radiogenic isotope investigation of carbonatite from the Miaoya complex, central China: Evidences for late-stage REE hydrothermal event and mantle source heterogeneity. *Lithos*, **322**: 225-237.
- [J-143] **Lewis SR[@]**, **Simonetti A**, **Corcoran L⁺**, **Spano TL⁺**, Chung BW, Teslich NE, Burns PC (2018). Characterization of uraninite using FIB-SEM approach and its implications for LA-ICP-MS analyses. *Journal of Radioanalytical and Nuclear Chemistry*, **318**: 1389-1400.
- [J-142] Schurr MR, **Donohue PH⁺**, **Simonetti A**, Dawson E (2018). Multi-Element and Lead Isotope Characterization of Early Nineteenth Century Pottery Sherds from Native American and Euro-American Sites. *Journal of Archaeological Science: Reports*, **20**: 390-399.
- [J-141] **Çimen O[@]**, Göncüoğlu MC, **Simonetti A**, Sayit K (2018). New zircon U-Pb LA-ICP-MS ages and Hf isotope data from the Central Pontides: Geological and geodynamic constraints. *Journal of Geodynamics*, **116**: 23-36.
- [J-140] Olds TA, Plášil J, Kampf AR, **Spano TL[@]**, Haynes P, Carlson SM, Burns PC, **Simonetti A**, Mills OP (2018). Leesite, K(H₂O)₂[(UO₂)₄O₂(OH)₅]·3H₂O, a new K-bearing schoepite-family mineral from the Jomac mine, San Juan County, Utah, USA. *American Mineralogist*, **103**: 143-150.

- [J-139] **Peixoto C@**, Heilbron M, Ragatkya D, Armstrong R, Dantas E, Valeriano C, **Simonetti, A** (2017). Tectonic evolution of the juvenile Tonian Serra Da Prata magmatic arc in the Ribeira Belt, SE Brazil: Implications for early west Gondwana amalgamation. *Precambrian Research*, **302**: 221-254.
- [J-138] Olds TA, Plášil J, Kampf AR, **Simonetti A**, Sadergaski LR, Chen Yu-S, Burns PC (2017). Ewingite: Earth's most complex mineral. *Geology*, **45**: 1007-1010.
- [J-137] **Balboni E⁺**, **Simonetti A**, **Spano TL@**, **Cook ND***, Burns PC (2017). Rare earth element fractionation in uranium ore and its U(VI) alteration. *Applied Geochemistry*, **87**: 84-92.
- [J-136] **Spano TL@**, **Simonetti A**, **Balboni E⁺**, **Dorais C@**, Burns PC (2017). Trace element and U isotope analysis of uraninite and ore concentrate: Applications for nuclear forensic investigations. *Applied Geochemistry*, **84**: 277-285.
- [J-135] **Çimen O@**, Göncüoğlu MC, **Simonetti A**, Sayıt K (2017). Whole rock geochemistry, Zircon U-Pb and Hf isotope systematics of the Çangaldağ Pluton: Evidences for Middle Jurassic Continental Arc Magmatism in the Central Pontides, Turkey. *Lithos*, **290-291**: 136-158.
- [J-134] **Spano TL@**, **Simonetti A**, **Wheeler T***, Carpenter G, Freet D, **Dorais C@**, **Balboni E⁺**, Burns PC (2017). A novel nuclear forensic tool involving deposit type normalized rare earth element signatures. *Terra Nova*, **29**: 294-305.
- [J-133] **Lussier AJ⁺**, Rouvimov S, Burns PC, **Simonetti A** (2017). Nuclear-blast induced nanotextures in quartz and zircon within Trinitite. *American Mineralogist*, **102**: 445-460.
- [J-132] **Koeman EC@**, McNamara BK, Smith FN, **Simonetti A**, Burns PC (2017). Developing methodologies for source attribution: Glass phase separation in Trinitite using NF₃. *Radiochimica Acta*, **105**: 417-430.
- [J-131] Smart KA, Tappe S, **Simonetti A**, Simonetti SS, Woodland A, Harris C (2017). Tectonic significance and redox state of Paleoproterozoic eclogite and pyroxenite components in the Slave cratonic mantle lithosphere, Voyageur kimberlite, Arctic Canada. *Chemical Geology*, **455**: 98-119.
- [J-130] Potter NJ, Kamenetsky VS, **Simonetti A**, Goemann K (2017). Different types of liquid immiscibility in carbonatite magmas: a case study of the Oldoinyo Lengai 1993 lava and melt inclusions. *Chemical Geology*, **455**: 376-384.
- [J-129] **Hulett SRW@**, **Simonetti A**, Rasbury ET, Hemming NG (2016). Recycling of subducted crustal components into carbonatite melts revealed by boron isotopes. *Nature Geoscience*, **9**: 904-908.

- [J-128] **Donohue PH⁺, Simonetti A** (2016). Vesicle size distribution as a novel nuclear forensics tool. *PLoS ONE*. 11(9): e0163516. DOI:10.1371/journal.pone.0163516.
- [J-127] **Balboni E⁺, Jones N*, Spano T[@], Simonetti A**, Burns PC (2016). Chemical and Sr isotopic characterization of North American uranium ores: nuclear forensic applications. *Applied Geochemistry*, **74**: 24-32.
- [J-126] **Chen W[@]**, Zhang W, **Simonetti A**, Jiang SY (2016). Mineral chemistry of melanite from calcitic ijolite, the Oka carbonatite complex, Canada: Implication for multi-pulse magma mixing. *Journal of Earth Science*, **27**: 599-610.
- [J-125] **Dustin MK*, Koeman EC[@], Simonetti A, Torrano Z***, Burns PC (2016). Comparative investigation between in-situ laser ablation- vs. bulk sample (solution mode)-ICP-MS analysis of Trinitite post-detonation materials. *Applied Spectroscopy*, **70**: 1446-1455.
- [J-124] Buzon MR, Smith S, **Simonetti A** (2016). Entanglement and the Formation of Ancient Nubian Napatan State. *American Anthropologist*, **118**: 284-300.
- [J-123] **Vilalva FCJ[@]**, Vlach SRF, **Simonetti A** (2016). Chemical and O-isotope compositions of amphiboles and clinopyroxenes from A-type granites of the papanduva pluton, South Brazil: insights into late- to post-magmatic evolution of peralkaline systems. *Chemical Geology*, **420**: 186-199.
- [J-122] **Koeman EC[@], Simonetti A**, Burns PC (2015). Sourcing of copper and lead within red inclusions from Trinitite post-detonation material. *Analytical Chemistry*, **87**: 5380-5386.
- [J-121] Meredith NA, Sigmon GE, **Simonetti A**, Burns PC (2015). Structural and morphological influence on neptunium incorporation in uranyl molybdates. *Crystal Growth and Design*, **15**: 5293-5300.
- [J-120] Hui H, Peslier AH, Rudnick RL, **Simonetti A**, Neal CR (2015). Plume-cratonic lithosphere interaction recorded by water and other trace elements in peridotite xenoliths from the Labait volcano, Tanzania. *Geochemistry, Geophysics, Geosystems*, **16**: DOI:10.1002/2015GC005779.
- [J-119] **Donohue PH⁺, Simonetti A, Koeman EC[@], Mana S⁺**, Burns PC (2015). Nuclear forensic applications involving high spatial resolution analysis of Trinitite cross-sections. *Journal of Radioanalytical and Nuclear Chemistry*, **306**: 457-467.
- [J-118] **Chen W[@], Simonetti A** (2015). Isotopic (Pb, Sr, Nd, C, O) evidence for plume-related sampling of an ancient, depleted mantle reservoir. *Lithos*, **216-217**: 81-92.
- [J-117] Moroskat M, Gleeson SA, Sharp RJ, **Simonetti A**, Gallagher CJ (2015). The geology of the carbonate-hosted Blende Ag–Pb–Zn deposit, Wernecke Mountains, Yukon, Canada. *Mineralium Deposita*, **50**: 83-104.

- [J-116] Mirnejad H, **Simonetti A**, Molasalehi F (2015). Origin and formational history of some Pb-Zn deposits from Alborz and Central Iran: Pb isotope constraints. *International Geology Review*, **57**: 463-471.
- [J-115] **Chen W@**, **Simonetti A** (2014). Evidence for the multi-stage petrogenetic history of the Oka carbonatite complex (Quebec, Canada) as recorded by perovskite and apatite. *Minerals*, **4**: 437-476.
- [J-114] Pirajno F, González-Álvarez I, **Chen W@**, **Simonetti A**, leGrass M (2014). The Gifford Creek Ferrocarnatite Complex, Gascoyne Province, Western Australia: Associated fenitic alteration and a putative link with the ~1075 Ma Warakurna LIP. *Lithos*, **202-203**: 100-119.
- [J-113] **Bellucci JJ+**, **Simonetti A**, **Koeman EC@**, **Wallace C@**, Burns PC (2014). A Detailed Geochemical Investigation of Post Nuclear Detonation Trinitite Glass at High Spatial Resolution: Delineating Anthropogenic vs. Natural Components. *Chemical Geology*, **365**: 69-86.
- [J-112] Smart KA, Chacko T, **Simonetti A**, Sharp ZD, Heaman LM (2014). A record of - Paleoproterozoic subduction preserved in the northern Slave cratonic mantle: Sr-Pb-O isotope and trace-element investigations of eclogite xenoliths from the Jericho and MuskoX kimberlites. *Journal of Petrology*, **55**: 549-583.
- [J-111] Waldron J, Schofield D, DuFrane SA, Floyd J, Crowley Q, **Simonetti A**, Dokken R, Pothier H (2014). Ganderia-Laurentia collision in the Caledonides of Great Britain and Ireland. *Journal of the Geological Society*, **168**: 83-98.
- [J-110] **Chen W@**, **Simonetti A**, Burns PC (2013). A combined geochemical and geochronological investigation of niocalite from the Oka carbonatite complex, Canada. *The Canadian Mineralogist*, **51**: 785-800.
- [J-109] **Koeman EC@**, **Simonetti A**, **Chen W@**, Burns PC (2013). Oxygen isotope composition of trinitite postdetonation materials. *Analytical Chemistry*, **85**: 11913-11919.
- [J-108] **Chen W@**, Kamenetsky VS, **Simonetti A** (2013). Evidence for the alkaline nature of parental carbonatite melts at Oka complex in Canada. *Nature Communications*, **4**:2687 doi: 10.1038/ncomms3687.
- [J-107] Lin S, Parks J, Heaman LM, **Simonetti A**, Corkery MT (2013). Diapirism and sagduction 1 as a mechanism for deposition and burial of “Timiskaming-type” sedimentary sequences, Superior Province: Evidence from detrital zircon geochronology and implications for the Borden Lake conglomerate in the Kapuskasing uplift. *Precambrian Research*, **238**: 148-157.
- [J-106] Heilbron M, Tupinamba M, de Morisson Valeriano C, Armstrong R, Guilherme do Eirado Siva L, Seibel Melo R, **Simonetti A**, Soares ACP, Machado N (2013). The Sierra Da

Boliva Complex: The record of a new Neoproterozoic arc-related unit at Ribeira Belt. *Precambrian Research*, **238**: 158-175.

- [J-105] **Bellucci JJ⁺**, **Simonetti A**, **Wallace C[@]**, **Koeman EC[@]**, Burns PC (2013). The Pb Isotopic Composition of Trinitite Melt Glass: Evidence for the Presence of Canadian Industrial Pb in the First Atomic Weapon Test. *Analytical Chemistry*, **85**: 7588-7593.
- [J-104] **Simonetti A**, **Bellucci JJ⁺**, **Wallace C[@]**, **Koeman EC[@]**, Burns PC (2013, invited). Nonproliferation and nuclear forensics: Detailed, multi-analytical investigation of trinitite post-detonation materials. *2013 Mineralogical Association of Canada Short Course Series*, Volume **43**: 395-416.
- [J-103] **Wallace C[@]**, **Bellucci JJ⁺**, **Simonetti A**, **Hainley T***, **Koeman EC[@]**, Burns PC (2013). A multi-method approach for determination of radionuclide distribution in trinitite. *Journal of Radioanalytical and Nuclear Chemistry*, **298**: 993-1003.
- [J-102] **Vilalva FCJ[@]**, Vlach SRF, **Simonetti A** (2013). Nacarebiosite-(Ce) and Britholite-(Ce) in peralkaline granites from the Morro Redondo Complex, Graciosa Province, Southern Brazil: Occurrence and compositional data. *Canadian Mineralogist*, **51**: 313-332.
- [J-101] **Chen W[@]**, **Simonetti A** (2013). In-situ determination of major and trace elements in calcite and apatite, and U-Pb ages of apatite from the Oka carbonatite complex: insights into a complex crystallization history. *Chemical Geology*, **353**: 151-172.
- [J-100] Calderon M, Prades CF, Hervé F, Avendaño V, Fanning CM, Massonne H, Theye T, **Simonetti A** (2013). Petrological vestiges of the Late Jurassic–Early Cretaceous transition from rift to back-arc basin in southernmost Chile: new age and geochemical data from the Capitán Aracena, Carlos III, and Tortuga ophiolitic complexes. *Geochemical Journal*, **47**: 201-217.
- [J-99] **Bellucci JJ⁺**, **Simonetti A**, **Wallace C[@]**, **Koeman EC[@]**, Burns PC (2013). Isotopic Fingerprinting of the World's First Nuclear Device Using Post-Detonation Materials. *Analytical Chemistry*, **85**: 4195-4198.
- [J-98] **Alves A[@]**, Janasi V, Neto M, Heaman L, **Simonetti A** (2013). U-Pb geochronology of the granite magmatism in the Embu Terrane: implications for the evolution of the Central Ribeira Belt, SE Brazil. *Precambrian Research*, **230**: 1-12.
- [J-97] Buzon MR, **Simonetti A** (2013). Strontium isotope (⁸⁷Sr/⁸⁶Sr) variability in the Nile Valley: Identifying residential mobility during ancient Egyptian and Nubian sociopolitical changes in the New Kingdom and Napatan periods. *American Journal of Physical Anthropology*, **151**: 1-9.

- [J-96] Pestle WJ, **Simonetti A**, Curet LA (2013). $^{87}\text{Sr}/^{86}\text{Sr}$ variability in Puerto Rico: Geological complexity and the study of paleomobility. *Journal of Archaeological Sciences*, **40**: 2561-2569.
- [J-95] Fagan AL, Neal CR, **Simonetti A**, Donohue PH, Sullivan KM (2013). Distinguishing between Apollo 14 impact melt and pristine mare basalt samples by geochemical and textural analyses of olivine. *Geochimica et Cosmochimica Acta*, **106**: 429-445.
- [J-94] **Bellucci JJ⁺**, **Wallace C[@]**, **Koeman EC[@]**, **Simonetti A**, Burns PC, Kieser J, Port E, Walczak T (2013). Distribution and Behavior of Some Radionuclides Associated with the Trinity Nuclear Test. *Journal of Radioanalytical and Nuclear Chemistry*, **295**: 2049-2057.
- [J-93] Wu S, Chen F, **Simonetti A**, Albrecht-Schmitt TE (2013). Substitution of IO^{3-} , IO^{4-} , $\text{Se}_2\text{O}_3^{2-}$, and SeO_4^{2-} for CO_3^{2-} in $\text{Na}_4\{\text{UO}_2(\text{CO}_3)_3\}$. *Radiochimica Acta*, **101**: 625-630.
- [J-92] Meredith N, Polinski M, Cross J, Villa E, **Simonetti A**, Albrecht-Schmitt T (2013). Synthetic Influences on Neptunium Incorporation in Naturally Occurring Copper Uranyl Phosphates. *Crystal Growth and Design*, **13**: 386-392.
- [J-91] Henrique-Pinto R, Janasi V, **Simonetti A**, Tassinari CCG, Heaman LM (2012). Paleoproterozoic source contributions to the São Roque Group sedimentation: LAMC-ICPMS U-Pb dating and Sm-Nd systematics of clasts from metaconglomerates of the Boturuna Formation. *Geologia USP-Série Científica*, **12**: 21-32.
- [J-90] Gromek P, Gleeson SA, **Simonetti A** (2012). A basement interacted fluid in the N81 deposit, Pine Point Pb-Zn District, Canada: Sr isotope analyses of single dolomite crystals. *Mineralium Deposita*, **47**: 749-754.
- [J-89] Meredith NA, Polinski MJ, Lin J, **Simonetti A**, Albrecht-Schmitt TE (2012). Incorporation of Neptunium(VI) into a Uranyl Selenite. *Inorganic Chemistry*, **51**: 10480-10482.
- [J-88] Riches AJV, Day JMD, Walker RJ, **Simonetti A**, Liu Y, Neal CR, Taylor LA (2012). Rhenium-osmium isotope and highly-siderophile-element abundance systematics of angrite meteorites. *Earth Planetary Science Letters*, **353-354**: 208-218.
- [J-87] Hunt L, Stachel T, Grütter H, Armstrong J, McCandless TE, **Simonetti A**, Tappe S (2012). Small Mantle Fragments from the Renard Kimberlites, Quebec: Powerful Recorders of Mantle Lithosphere Formation and Modification beneath the Eastern Superior Craton. *Journal of Petrology*, **53**: 1597-1635.
- [J-86] Buzon MR, Conlee CA, **Simonetti A**, Bowen GJ (2012). The Consequences of Wari Contact in the Nasca region during the Middle Horizon: Archaeological, skeletal, and isotopic evidence. *Journal of Archaeological Sciences*, **39**: 2627-2636.

- [J-85] Tappe S, **Simonetti A** (2012). Combined U-Pb geochronology and Sr-Nd isotope analysis of the Ice River perovskite standard, with implications for kimberlite and alkaline rock petrogenesis. *Chemical Geology*, **304-305**: 10-17.
- [J-84] Donohue PH, **Simonetti A**, Neal CR (2012). Chemical Characterization of Natural Ilmenite – Possible New Reference Material. *Geostandards and Geoanalytical Research*, **36**: 61-73.
- [J-83] **Bellucci JJ⁺**, **Simonetti A** (2012). Nuclear Device Debris: Implications from Trinitite-Hosted Inclusions. *Journal of Radioanalytical Chemistry*, **293**: 313-319.
- [J-82] Qiu J, Ling J, Sui A, Szymanowski J, **Simonetti A**, Burns P (2012). Time-Resolved Self-Assembly of a Fullerene-Topology Core-Shell Cluster Containing 68 Uranyl Polyhedra. *Journal of the American Chemical Society*, **134**: 1810-1816.
- [J-81] Wang S, Diwu J, **Simonetti A**, Booth CH, Albrecht-Schmitt TE (2011). Interstitial Incorporation of Plutonium into a Low-Dimensional Potassium Borate. *Environmental Science and Technology*, **45**: 9457-9463.
- [J-80] Tappe S, Smart KA, Pearson DG, Steenfelt A, **Simonetti A** (2011). Archean refractory eclogites from Greenland provide evidence for early continental growth in subduction zones. *Geology*, **39**: 1103-1106.
- [J-79] Sobrinho JMA, Janasi VA, **Simonetti A**, Heaman L, Santoro J, Diniz HN (2011). The Ilha Anchieta quartz monzonite (SP): southernmost expression of the ~500 Ma magmatism in the Ribeira Belt. *Annals of the Brazilian Academy of Sciences*, **83**: 891-906.
- [J-78] Valeriano C, Tupinamba M, **Simonetti A**, Heilbron M, Almeida J, Eirado L (2011). U-Pb LA-MC-ICPMS geochronology of Cambro-Ordovician post-collisional granites of the Ribeira Belt, southeast Brazil: terminal Brasiliano magmatism in central Gondwana supercontinent. *Journal of South American Earth Sciences*, **32**: 416-428.
- [J-77] Wu S, Wang S, **Simonetti A**, Chen F, Albrecht-Schmitt TE (2011). Incorporation of iodate into uranyl borates and its implication for the immobilization of ¹²⁹I in nuclear waste repositories. *Radiochimica Acta*, **99**: 1-7.
- [J-76] Nicholson KN, Maurizot P, Cluzel D, Black PM, Picard C, **Simonetti A**, Stewart A, Alexander A (2011). Geochemistry and age of the Noumea Basin lavas, New Caledonia: Evidence for Cretaceous subduction beneath the eastern Gondwana margin. *Lithos*, **125**: 659-674.
- [J-75] Fliegel D, Wirth R, **Simonetti A**, Schreiber A, Furnes H, Muehlenbachs K (2011). Tubular textures in pillow lavas from a Caledonian West-Norwegian Ophiolite: a combined TEM, LA-ICP-MS and STXM study. *Geochemistry, Geophysics, Geosystems*, **12**: Q02010, doi:10.1029/2010GC003255.

- [J-74] Fassett JE, Heaman LM, **Simonetti A** (2011). Direct U-Pb Dating of Cretaceous and Paleocene Dinosaur Bones, San Juan Basin, New Mexico. *Geology*, **39**: 159-162.
- [J-73] Lemieux Y, Hadlari T, **Simonetti A** (2011). Detrital zircon geochronology and provenance of Devonian-Mississippian strata in the northern Canadian Cordilleran miogeocline. *Canadian Journal of Earth Sciences*, **48**: 515-541.
- [J-72] Mirnejad H, **Simonetti A**, Molasalehi F (2011). Pb isotopic compositions of some Zn-Pb deposits and occurrences from Urumieh-Dokhtar and Sanadaj-Sirjan Zones in Iran. *Ore Geology Reviews*, **39**: 181-187.
- [J-71] Andrushko VA, Buzon MR, Gibaja AM, McEwan GF, **Simonetti A**, Creaser RA (2011). Investigating a Child Sacrifice Event from the Inca Heartland. *Journal of Archaeological Science*, **38**: 323-333.
- [J-70] Davies T, Richards JP, Creaser RA, Heaman LM, Chacko, **Simonetti A** (2010). Paleoproterozoic Age Relationships in the Three Bluffs Archean Iron Formation-Hosted Gold Deposit, Committee Bay Greenstone Belt, Nunavut, Canada. *Exploration and Mining Geology*, **19**: 55-80.
- [J-69] Fliegel D, Kosler J, **Simonetti A**, McLoughlin N, de Wit M, Wirth R, Furnes H (2010). In-situ dating of the Earth's oldest trace fossil at 3.34 Ga. *Earth Planetary Science Letters*, **299**: 290-298.
- [J-68] **Simonetti A**, Neal CR (2010). In-situ chemical, U-Pb dating, and Hf isotope investigation of megacrystic zircons, Malaita (Solomon Islands): evidence for multi-stage alkaline magmatic activity beneath the Ontong Java Plateau. *Earth Planetary Science Letters*, **295**: 251-261.
- [J-67] Fliegel D, Wirth R, **Simonetti A**, Furnes H, Staudigel H, Hanski E, Muehlenbachs K (2010). Septate tubular textures in 2.0 Ga pillow lavas from the Pechenga Greenstone Belt, a nano- spectroscopic approach to investigate their biogenicity. *Geobiology*, **8**: 372-390.
- [J-66] Morelli RM, Bell CC, Creaser RA, **Simonetti A** (2010). Constraints on the genesis of gold mineralization at the Homestake gold deposit, Black Hills, South Dakota, from rhenium-osmium sulfide geochronology. *Mineralium Deposita*, **45**: 461-480.
- [J-65] Wu S, Chen F, **Simonetti A**, Albrecht-Schmitt T (2010). Incorporation of Neptunium (V) and Iodate into a Uranyl Phosphate: Implications for Mitigating the Release of ^{237}Np and ^{129}I in Repositories. *Environmental Science and Technology*, **44**: 3192-3196.
- [J-64] Heilbron M, Duarte B, Valeriano C, **Simonetti A**, Machado N, Nogueira JR (2010). Evolution of reworked Paleoproterozoic basement rocks within the Ribeira belt (Neoproterozoic), SE-Brazil, based on U-Pb geochronology: implications for paleogeographic reconstructions of the São Francisco-Congo paleocontinent. *Precambrian Research*, **178**: 136-148.

- [J-63] Bell K, **Simonetti A** (2010). Source of parental melts to carbonatites – critical isotopic constraints. *Mineralogy and Petrology* (Special issue on Flood Basaltic Magmatism and Associated Alkaline Complexes - dedicated to Keith Bell. Edited by LG Gwalani, KM Moore, A Simonetti). *Mineralogy and Petrology*, **98**: 77-89.
- [J-62] Clark B, Vandemeer B, **Simonetti A**, Buka I (2010). Is lead a concern in autistic children? *Paediatrics and Child Health*, **15**: 17-22.
- [J-61] McLoughlin N, Fliegel DJ, Furnes H, Staudigel H, **Simonetti A**, Zhao GC, Robinson PT (2010). Assessing the biogenicity and syngenicity of candidate bioalteration textures in pillow lavas of the ~2.52 Ga Wutai Greenstone Terrane of China. *Chinese Science Bulletin*, **55**: 188-199.
- [J-60] **Alves A**[@], Janesi V, **Simonetti A**, Heaman LM (2009). Microgranitic enclaves as products of self-mixing events: a study of open-system processes in the Mauá pluton, São Paulo, Brazil, based on in situ isotopic and trace elements in plagioclase. *Journal of Petrology*, **50**: 2221-2247.
- [J-59] Ling J, Wu S, Chen F, **Simonetti A**, Shafer JT, Albrecht-Schmitt TE (2009). Does iodate incorporate into layered uranyl phosphates under hydrothermal conditions? *Inorganic Chemistry*, **48**: 10995-11001.
- [J-58] Conlee CA, Buzon MR, Gutierrez AN, **Simonetti A**, Creaser RA (2009). Identifying foreigners versus locals in a burial population from Nasca, Peru: An investigation using strontium isotope analysis. *Journal of Archaeological Science*, **36**: 2755-2764.
- [J-57] Michelutti N, **Simonetti A**, Briner JP, Funder S, Creaser RA, Wolfe AP (2009). Temporal trends of pollution Pb and other metals in east-central Baffin Island inferred from lake-sedimentary geochemistry. *Science of the Total Environment*, **407**: 5653-5662.
- [J-56] Smart KA, Heaman LM, Chacko T, **Simonetti A**, Kopylova M, Mah D, Daniels D (2009). The origin of high-MgO diamond eclogites from the Jericho kimberlite, Canada. *Earth Planetary Science Letters*, **284**: 527-537.
- [J-55] Tappe S, Steenfelt A, Heaman LM, **Simonetti A** (2009). The newly discovered Tikiusaaq carbonatite-aillikite occurrence, West Greenland, and some remarks on carbonatite-kimberlite relationships. *Lithos*, **112S**: 385-399.
- [J-54] Sigmon GE, Unruh DK, Ling J, Weaver B, Ward M, Pressprich L, **Simonetti A**, Burns PC (2009). Symmetry vs. Minimal Pentagonal Adjacencies in Uranium-Based Polyoxometalate Fullerene Topologies. *Angewandte Chemie*, **48**: 2737-2740.
- [J-53] Waldron JWF, White CE, Barr SM, **Simonetti A**, Heaman LM (2009). Provenance of the Meguma terrane: rifted margin of Early Paleozoic Gondwana. *Canadian Journal of Earth Sciences*, **46**: 1-8.

- [J-52] Doornbos C, Heaman L, Doupé J, England J, **Simonetti A**, Lajeunesse P (2009). The first integrated use of in situ U-Pb geochronology and geochemical analyses to determine long-distance transport of erratics, Canadian Arctic Archipelago. *Canadian Journal of Earth Sciences*, **46**: 101-122.
- [J-51] Andrushko VA, Buzon MR, **Simonetti A**, Creaser RA (2009). Strontium isotope evidence for prehistoric migration at Chokepukio, Valley of Cuzco, Peru. *Latin American Antiquity*, **20**: 57-75.
- [J-50] Lorenz H, Gee DG, **Simonetti A** (2008). Detrital zircon ages and provenance of the Late Neoproterozoic and Palaeozoic successions on Severnaya Zemlya, Kara Shelf: a tie to Baltica. *Norwegian Journal of Geology*, **88**: 235-258.
- [J-49] Waldron JWF, Floyd JD, **Simonetti A**, Heaman LM (2008). Ancient Laurentian detrital zircon in the closing Iapetus Ocean, Southern Uplands Terrane, Scotland. *Geology*, **30**: 527-530.
- [J-48] Haverkort CM, Weber A, Katzenberg MA, Goriunova OI, **Simonetti A**, Creaser RA (2008). Hunter-gatherer mobility strategies and resource use based on strontium isotope ($^{87}\text{Sr}/^{86}\text{Sr}$) analysis: a case study from Middle Holocene Lake Baikal, Siberia. *Journal of Archaeological Science*, **35**: 1265-1280.
- [J-47] Oliveros V, Aguirre L, Morata D, **Simonetti A**, Vergara M, Belmar M, Calderón, S (2008). Geochronology of very low-grade Mesozoic Andean metabasites. An approach through the K-Ar, $^{40}\text{Ar}/^{39}\text{Ar}$ and U-Pb LA-MC-ICP-MS methods. *Journal of the Geological Society*, **165**: 579-584.
- [J-46] Cooper HK, Duke MJM, **Simonetti A**, Chen G (2008). Trace Element and Pb Isotope Provenance Analyses of Native Copper in Northwestern North America: Results of a Recent Pilot Study Using INAA, ICP-MS, and LA-MC-ICP-MS. *Journal of Archaeological Science*, **35**: 1732-1747.
- [J-45] Creighton S, Stachel T, McLean H, Muehlenbachs K, **Simonetti A**, Eichenberg D, Luth R (2008). Diamondiferous peridotitic microxenoliths from the Diavik Diamond Mine, NT. *Contributions to Mineralogy and Petrology*, **155**: 541-554.
- [J-44] **Simonetti A**, Buzon MR, Creaser RA (2008). In-situ elemental and Sr isotope investigation of human tooth enamel by laser ablation-(MC)-ICP-MS: Successes and pitfalls. *Archaeometry*, **50**: 371-385.
- [J-43] **Simonetti A**, Heaman LM, Chacko T (2008, *invited*). Use of discrete-dynode secondary electron multipliers with Faradays – A ‘reduced volume’ approach for in-situ U-Pb dating of accessory minerals within petrographic thin section by LA-MC-ICP-MS (edited by P. Sylvester). 2008 *V.M. Goldschmidt Laser Ablation Short Course Volume* **40**: 241-264.

- [J-42] Lemieux Y, Thompson RI, Erdmer P, **Simonetti A**, Creaser RA (2007). Detrital zircon geochronology and provenance of late Proterozoic and mid-Paleozoic successions outboard of the miogeocline, southeastern Canadian Cordillera. *Canadian Journal of Earth Sciences*, **44**: 1675-1693.
- [J-41] Schultz MEJ, Chacko T, Heaman LM, Sandeman HA, **Simonetti A**, Creaser RA (2007). The Queen Maud Block: A newly recognized Paleoproterozoic (2.4 – 2.5 Ga) terrane in northwest Laurentia. *Geology*, **35**: 707-710.
- [J-40] Banerjee NR, **Simonetti A**, Furnes H, Muehlenbachs K, Staudigel H, Heaman LM, Van Kranendonk MJ (2007). Direct dating of Archean microbial ichnofossils. *Geology*, **35**: 487-490.
- [J-39] Schmidberger SS, **Simonetti A**, Heaman LM, Creaser RA, Whiteford S (2007). Lu-Hf, in-situ Sr and Pb isotope and trace element systematics for mantle eclogites from the Diavik diamond mine: Evidence for Paleoproterozoic subduction beneath the Slave craton, Canada. *Earth and Planetary Science Letters*, **254**: 55-68.
- [J-38] Buzon MR, **Simonetti A**, Creaser RA (2007). Migration in the Nile Valley during the New Kingdom Period: A preliminary strontium isotope analysis. *Journal of Archaeological Science*, **34**: 1391-1401.
- [J-37] Veiga-Pires C, Moura D, Rodrigues B, Machado N, Campo L, **Simonetti A** (2007). Provenance of Quaternary sands in the Algarve (Portugal) revealed by U-Pb ages of detrital zircon. Special Publication of the International Association of Sedimentologists No. 38. Sedimentary Processes, Environments and Basins: A Tribute to Peter Friend, eds. G Nichols, E Williams and C Paola, 327-340.
- [J-36] Hartlaub RP, Heaman LM, **Simonetti A**, Böhm CO (2006). Relicts of Earth's earliest crust: U-Pb, Lu-Hf, and morphological characteristics of >3.7 Ga detrital zircon of the western Canadian shield. Geological Society of America Special Paper 405 – Processes on the early Earth (eds. Wolf Reimold and Roger Gibson), 75-90.
- [J-35] **Simonetti A**, Heaman LM, Chacko T, Banerjee N (2006). In-situ petrographic thin section U-Pb dating of zircon, monazite, and titanite using laser ablation-MC-ICP-MS. *International Journal of Mass Spectrometry*, **253**: 87-97.
- [J-34] Banic C, Leitch WR, Strawbridge K, Tanabe R, Wong HK, Gariépy C, **Simonetti A**, Nejedly Z, Campbell JL, Lu J, Skeaff J, Paktunc D, MacPherson JI, Daggupaty S, Gonac'h H, Chatt A, Lamoureux M (2006). The physical and chemical evolution of aerosols in smelter and power plant plumes: an airborne study. *Geochemistry: Exploration, Environment, Analysis*, **6**: 111-120.
- [J-33] Schmidberger SS, Heaman LM, **Simonetti A**, Creaser RA, Cookenboo HO (2005). Formation of Paleoproterozoic eclogitic mantle, Slave Province (Canada): Insights from in-

- situ Hf and U-Pb isotopic analyses of mantle zircons. *Earth and Planetary Science Letters*, **240**: 621-633.
- [J-32] Hartlaub RP, Chacko T, Heaman LM, Creaser RA, Ashton KE, **Simonetti A** (2005). Ancient (Meso- to Paleoproterozoic) crust in the Rae Province, Canada: evidence from Sm-Nd and U-Pb constraints. *Precambrian Research*, **141**: 137-153.
- [J-31] **Simonetti A**, Heaman LM, Hartlaub RP, Creaser RA, McHattie TG, Böhm C (2005). U-Pb dating of zircon by laser ablation-MC-ICP-MS using a new multiple ion counting-faraday collector array. *Journal of Analytical Atomic Spectrometry*, **20**: 677-686.
- [J-30] **Simonetti A**, Gariépy C, Banic C, Tanabe R, Wong HK (2004). Pb isotopic characterization of aircraft-sampled emissions from the Horne smelter at Noranda (Québec) – implications for atmospheric pollution in northeastern North America. *Geochimica et Cosmochimica Acta*, **68**: 3285-3294.
- [J-29] Valeriano CM, Machado N, **Simonetti A**, Valladares CS, Seer HJ, Simões LSA (2004). U-Pb geochronology of the southern Brasília belt (SE-Brazil): sedimentary provenance, Neoproterozoic orogeny and assembly of west-Gondwana. *Precambrian Research*, **130**: 27-55.
- [J-28] **Simonetti A**, Gariépy C, Carignan J (2003). Tracing sources of atmospheric pollution in western Canada using the Pb isotopic composition and heavy metal abundances of epiphytic lichens. *Atmospheric Environment*, **37**: 2853-2865.
- [J-27] Schmidberger SS, **Simonetti A**, Francis D (2003). Small-scale Sr isotope investigation of clinopyroxenes from peridotite xenoliths by laser ablation-MC-ICP-MS – implications for mantle metasomatism. *Chemical Geology*, **199**: 317-329.
- [J-26] Kosler J, **Simonetti A**, Sylvester P, Cox R, Tubrett M, Wilton D (2003). Laser ablation ICP-MS measurements of Re/Os ratios in molybdenite and implications for Re-Os geochronology. *Canadian Mineralogist (H. Longrich, special volume)*, **41**: 307-320.
- [J-25] Bizzarro M, **Simonetti A**, Stevenson RK, Kurszlaukis S (2003). In situ $^{87}\text{Sr}/^{86}\text{Sr}$ investigation of igneous apatites and carbonates using laser ablation MC-ICP-MS. *Geochimica et Cosmochimica Acta*, **67**: 289-302.
- [J-24] Bizzarro M, **Simonetti A**, Stevenson RK, David J (2002). Hf isotope evidence for a hidden mantle reservoir. *Geology*, **30**: 771-774.
- [J-23] Carignan J, **Simonetti A**, Gariépy C (2002). Dispersal of atmospheric lead in northeastern North America as recorded by epiphytic lichens. *Atmospheric Environment*, **36**: 3759-3766.
- [J-22] Schmidberger SS, **Simonetti A**, Francis D, Gariépy C (2002). Probing Archean lithosphere using the Lu-Hf isotope systematics of peridotite xenoliths from Somerset Island kimberlites, Canada. *Earth Planetary Science Letters*, **197**: 245-259.

- [J-21] Schmidberger SS, **Simonetti A**, Francis D (2001). Sr-Nd-Pb isotope data of mantle xenoliths from Somerset Island kimberlites: evidence for lithosphere stratification beneath Arctic Canada. *Geochimica et Cosmochimica Acta*, **65**: 4243-4255.
- [J-20] Machado N, **Simonetti A** (2001, *invited*). U-Pb dating and Hf isotopic composition of zircon by laser ablation-MC-ICP-MS. In Laser Ablation-ICPMS in the Earth Sciences - *Mineralogical Association of Canada Short Course Volume*, **29**: 121-146.
- [J-19] **Simonetti A**, Gariépy C, Carignan J (2000). Pb and Sr isotopic evidence for sources of atmospheric heavy metals and their deposition budgets in northeastern North America. *Geochimica et Cosmochimica Acta*, **64**: 3,439-3,452.
- [J-18] McLennan SM, **Simonetti A**, Goldstein SL (2000). Nd and Pb isotopic evidence for provenance and post-depositional alteration of the Paleoproterozoic Huronian Supergroup, Canada. *Precambrian Research*, **102**: 263-278.
- [J-17] **Simonetti A**, Gariépy C, Poissant L, Carignan J (2000). Isotopic Evidence of Trace Metal Sources and Transport in Eastern Canada as Recorded From Wet Deposition *Journal of Geophysical Research – Atmosphere*, **105 (D10)**: 12,263-12,279.
- [J-16] **Simonetti A**, Gariépy C, Carignan J (2000). Pb and Sr isotopic compositions of snowpack from Québec, Canada: inferences on the sources and deposition budgets of heavy metals. *Geochimica et Cosmochimica Acta*, **64**: 5-20.
- [J-15] **Simonetti A**, Goldstein SL, Schmidberger SS, Viladkar SG (1998). Geochemical and Nd, Pb, and Sr Isotope Data of Deccan Alkaline Complexes - Inferences on Mantle Sources and Plume-Lithosphere Interaction. *Journal of Petrology*- special issue on carbonatites (K. Bell, B. Kjarsgaard & A. Simonetti, guest eds.), **39**: 1847-1864.
- [J-14] Bell K, Kjarsgaard BA, **Simonetti A** (1998). Carbonatites- into the twenty-first century. *Journal of Petrology*- special issue on carbonatites (K. Bell, B. Kjarsgaard & A. Simonetti, guest eds.), **39**: 1839-1845.
- [J-13] Albarède F, **Simonetti A**, Vervoort JD, Blichert-Toft J, Abouchami W (1998). A Hf-Nd isotopic correlation in ferromanganese nodules. *Geophysical Research Letters*, **25**: 3895-3898.
- [J-12] Bikerman M, Prellwitz HS, Dembosky J, **Simonetti A**, Bell K (1997). New phlogopite K-Ar dates and the age of southwestern Pennsylvania kimberlite dikes. *Northeastern Geology and Environmental Sciences*, **19**: 302-308.
- [J-11] **Simonetti A**, Bell K, Shradly C (1997). Trace and rare-earth-element geochemistry of the June 1993 natrocarbonatite lavas, Oldoinyo Lengai (Tanzania): Implications for the origin of carbonatite magmas. *Journal of Volcanology and Geothermal Research*, **75**: 89-106.

- [J-10] **Simonetti A**, Bell K, Hall GEM (1996). Pb isotopic ratios and elemental abundances for selective leachates from near-surface till: implications for mineral exploration. *Journal of Applied Geochemistry*, **11**: 721-734.
- [J-9] Bell K, **Simonetti A** (1996). Carbonatite magmatism and plume activity: implications from the Nd, Pb and Sr isotope systematics of Oldoinyo Lengai. *Journal of Petrology*, **37**: 1321-1329.
- [J-8] **Simonetti A**, Shore M, Bell K (1996). Diopside phenocrysts from nephelinite lavas, Napak volcano, eastern Uganda: Evidence for magma mixing. *Canadian Mineralogist*, **34**: 411-422.
- [J-7] **Simonetti A**, Bell K (1995). Nd, Pb, and Sr isotope systematics of fluorite mineralization associated with the Cretaceous Amba Dongar carbonatite complex, west-central India: Evidence for a hydrothermal origin involving crustal interaction. *Economic Geology*, **90**: 2018-2027.
- [J-6] **Simonetti A**, Bell K (1995). Nd, Pb, and Sr isotopic data from the Tertiary Mount Elgon volcano, western Kenya-eastern Uganda: Implications for the origin and evolution of nephelinitic melts. *Lithos*, **36**: 141-153.
- [J-5] **Simonetti A**, Bell K, Viladkar SG (1995). Isotopic data from the Amba Dongar carbonatite complex, West-central India: Evidence for an enriched mantle source. *Chemical Geology-Isotope Geoscience Section*, **122**: 185-198.
- [J-4] **Simonetti A**, Bell K (1994). Isotopic and geochemical investigation of the Chilwa Island carbonatite complex, Malawi: Evidence for a depleted mantle source region, liquid immiscibility, and open system behaviour. *Journal of Petrology* **35**: 1597-1621.
- [J-3] **Simonetti A**, Bell K (1994). Nd, Pb and Sr isotopic data from the Napak carbonatite-nephelinite centre, eastern Uganda: An example of open-system crystal fractionation. *Contributions to Mineralogy and Petrology*, **115**: 356-366.
- [J-2] **Simonetti A**, Bell K (1993). Isotopic disequilibrium in clinopyroxenes from nephelinitic lavas, Napak volcano, eastern Uganda. *Geology*, **21**: 243-246.
- [J-1] **Simonetti A**, Doig R (1990). U-Pb and Rb-Sr geochronology of Acadian plutonism in the Dunnage zone of the southeastern Quebec Appalachians. *Canadian Journal of Earth Sciences*, **27**: 881-892.