

[課題番号] 16020

鉱物に記録された放射線誘起欠陥の定量評価 Quantitative valuation of radiation-induced defects on minerals

学術論文（査読あり）

- [1] Fujiwara T., Toyoda S., Uchida A., Nishido H., and Ishibashi J.: The alpha effectiveness of the dating ESR signal in barite: possible dependence with age, *Geochronometria*, in print (2016).
- [2] Tsuchiya, Y., Kayama, M., Nishido, H. and Noumi, Y.: Cathodoluminescence characterization of He⁺ ion-implanted zircon, *Geochronometria*, in print (2016).
- [3] Ohgo, S., Mishima, M., Ninagawa, K. and Nishido, H.: Cathodoluminescence zoning in the Antarctic meteorite of Yamato 86004, *Geochronometria*, in print (2016).
- [4] Nakano, S., Kojima, S., Makino, K., Kayama, M., Nishido, H. and Akai, J.: Cryptoperthitic and replacive intergrowths with iridescence in monzonitic rocks from Cerro Colorado, northern Chile, *European Journal of Mineralogy*, 28, 355-374 (2016).
- [5] Gucsiik, A., Gyollai, I., Nishido, H., Ninagawa, K., Izawa, M., Jäger, C., Simonia, I., Ott, U., Szaniszló, C. and Kayama, M.: Cathodoluminescence and Raman Spectromicroscopy of Forsterite in Tagish Lake Meteorite, Implications for Astromineralogy, *International Journal of Spectroscopy*, doi.org/10.1155/2016/1751730, 1-8 (2016).
- [6] Maki, S., Ohgo, S. and Nishido, H.: Cathodoluminescence characterization of feldspar minerals from granite- syenite rocks in Iwagijima Island, Ehime Prefecture, Japan, *Naturalistae*, 20, 13-18 (2016).

学術論文（査読なし）

- [1] 金丸 礼・蜷川清隆・西戸裕嗣・豊田 新：普通コンドライトの TL 測定における nanoGrayTL/OSL 一体型装置と岡山理科大学 TL 装置の比較, 岡山理科大学自然科学研究所報告, 41, 21-26 (2016).

博士論文

- [1] 内田乃「海洋性熱水重晶石の放射非平衡年代測定」 (2016).
- [2] 草野展弘「炭酸塩鉱物におけるカソードルミネッセンス発現メカニズムの解明」 (2016).

修士論文

- [1] 能美草太「含 Pb 炭酸塩鉱物のカソードルミネッセンス特性」 (2016).

国際会議

- [1] Fujiwara, T., Toyoda, S., Uchida, A., Ishibashi, J., Totsuka, S., Shimada, K. and Nakai, S.: Dating of barite and anhydrite in sea-floor hydrothermal deposits in the Okinawa Trough, 2016 AGU Fall Meeting, Dec. San Francisco, USA (2016).
- [2] Fujiwara, T., Toyoda, S., Uchida, A., Ishibashi, J., Totsuka, S., Shimada, K. and Nakai, S.: Radioactive disequilibrium and ESR dating of barite in sea-floor hydrothermal deposits of the Okinawa Trough, Goldschmidt 2016, June, Yokohama, Japan (2016).
- [3] Toyoda, S., Fujiwara, T., Uchida, A. and Ishibashi, J.: ESR dating of barite in see-floor hydrothermal deposits a new dating technique, Goldschmidt, June, Yokohama, Japan (2016).
- [4] Noumi, S., Kusano, N. and Nishido, H.: CL emission mechanism of Pb-bearing carbonates, Goldschmidt2016, Yokohama, Japan (2016).
- [5] Nagashima, K., Nishido, H. and Kayama, M.: Provenance study of Asian dust using cathodoluminescence spectrum of single quartz grain, Goldschmidt2016, Yokohama, Japan (2016).
- [6] Kanamaru, R., Nishido, H. and Yamaguchi, A.: Cathodoluminescence study of silica minerals in eucrites, Goldschmidt2016, Yokohama, Japan (2016).
- [7] Asai, H., Saneyoshi, M., Nishido, H. Toyoda, S., Tsogtbaatar, K. and Mainbayar, B.: Stratigraphic assignment of eolian sediments in the Central Gobi Desert, Mongolia using an indicator of defect centers in quartz composed of sand particles, ASAII2016, Ulan Bator, Mongolia (2016).
- [8] Kobayashi, S., Nimura, T., Nakata, M., Nakamura, R., Chihara, H., Koike, C. and Nishido, H.: In-situ polarimetric analysis of organic materials in Allende and Murchison meteorites, AGU2016 Fall Meeting, San Francisco, USA (2016).

[課題番号] 16020

- [9] Kusano, N., Nishido, H. and Noumi, S.: Temperature effects on CL emissions in Mn-activated carbonates, AGU2016 Fall Meeting, San Francisco, USA (2016).
- [10] Noumi, S., Kusano, N. and Nishido, H.: ns^2 type luminescence in Pb-bearing carbonates using cathodoluminescence, AGU2016 Fall Meeting, San Francisco, USA (2016).
- [11] Kanamaru, R., Yamaguchi, A. and Nishido, H.: Cathodoluminescence study of secondary minerals in basaltic eucrites, 7th Symposium of Polar Science, Tachikawa, Japan (2016).
- [12] Nagy, S., Józsa, S. and Nishido, H.: Heating Experiments of sideritic sedimentary rock as a possible Martian sediment: Can this rock survive a flash heating when it enters the earth's atmosphere?, 7th Symposium of Polar Science, Tachikawa, Japan (2016).

国内会議

- [1] 藤原泰誠・豊田新・内田乃・石橋純一郎・野崎達生: 伊豆・小笠原弧から採取された熱水性鉱石に含まれる重晶石の年代測定, 2016 年度日本地球化学会年会, 大阪 (2016).
- [2] 常 昕・鹿山雅裕・田近英一・関根康人・関根利守・西戸裕嗣・小林隆道: 石英の衝撃誘起ガラス化とカソードルミネッセンスの系統的变化: 新しい衝撃圧力計としての可能性, 日本地球惑星連合学会 2016 年年会, 幕張 (2016).
- [3] 土屋裕太・鹿山雅裕・西戸裕嗣・能美洋介: ジルコンのカソードルミネッセンスに及ぼす放射線損傷の評価, 日本地質学会 2016 年年会, 東京 (2016).
- [4] 金丸 礼・山口 亮・西戸 裕嗣: 玄武岩質ユーカライトに見られる石英の成因, 日本鉱物科学会 2016 年年会, 金沢 (2016).
- [5] 小林 優・二村徳宏・田中真人・中村良介・茅原弘毅・小池千代枝・中嶋 悟・西戸裕嗣: マーチンソン隕石およびアエンデ隕石に産する有機物のその場観察, 日本惑星科学会 2016 年秋期講演会, 岡山 (2016).