

3. List of Publications

The following articles were published by our faculty members during April 2004 to March 2005. The Geological Sciences section of the Institute also published the following publications.

- (1) Science Reports, Section B (Geological Sciences), vol. 26 (2005)
- (2) Annual Report, no. 30 (2004)

The exchange of publications will be gratefully acknowledged.

- ° The first author
- * Researchers belonging to the University of Tsukuba, not to the Institute of Geoscience
- ** Researchers not belonging to the University of Tsukuba
- *** Undergraduate students, graduate students and auditors belonging to the University of Tsukuba

Anma, R. (2005): Tectonic Evolution of the Taitao ophiolite - an Ophiolite Formed by Ridge Collision Events. *Gekkan Chikyu*, **312**, 428-437. (in Japanese, with Veloso, A.***, CRISTMASSY Project: Taitao Ophiolite Study Group)

_____ (2004): Competence contrast between pelitic schist and silicified pelitic schist in the Iwakuni-Yanai area of the Ryoke Belt, southwest Japan. *J. Geol. Soc. Japan*, **110**, 119-122. (in Japanese with English abstract, with Yamamoto, H.***, Terabayashi, M.**, Oasa, H.** and Kaneko, Y.**)

_____ (2004): The Quaternary volcanic activity of Hudson and Lautaro volcanoes, Chilean Patagonia: new constraints from K-Ar ages. *Rev. Geol. Chile*, **31**, 207-224. (with Orihashi, Y.***, Naranjo, J. A.**, Motoki, A.**, Sumino, H.**, Hirata, D.** and Nagao, K.**)

_____ (2004) Preliminary report on geology and morphology of the Patagonian volcanic field, South America: CHRISTMASSY-GRPP joint expedition. *Ann. Rep., Inst.*

Geosci. Univ. Tsukuba, **30**, 39-44. (with Veloso, A.***, Endo, R.***, Yamamoto, S.**, Ike, S.*** and Aniya, M.)

Arakawa, Y. (2004): Petrogenesis of the Mesozoic intrusive complexes from the southern Taihang Orogen, North China Craton: elemental and Sr-Nd-Pb isotopic constraints. *Contrib. Mineral. Petrol.*, **148**, 489-501. (with Chen, B.***, Jahn, B. M.** and Zhai, M. G.**)

_____ (2004): Petrogenesis of the Mesozoic intrusive complexes from the southern Tiahang Mountains, North China Craton: elemental and Sr-Nd-Pb isotopic constraints. In *Abstract and Programs, 54th annual conference of the Society of Resource Geology: Intrusion-related Mineral Resources in East Asia*, 15(S-02), Univ. Tokyo. (with Chen, B.***, Jahn, B. M.** and Zhai, M.G. **)

Endo, K. (2005): Molecular phylogeny of Acantharea (Actinopodea: Protista) based on small subunit rRNA gene sequences. *Sci. Rep., Inst. Geosci., Univ. Tsukuba, Sec. B.*, **26**, 13-22. (with Oka, A.° and Sashida, K.)

_____ (2005): Novel repetitive structures, deviant protein-encoding sequences and unidentified ORFs in the mitochondrial genome of the brachiopod *Lingula anatina*. *J. Mol. Evol.*, **61**, 36-53. (with Noguchi, Y.***, Rei Ueshima, R.** and Jacobs, H. T.**)

_____ (2004): Structure and expression of an unusually acidic matrix protein of pearl oyster shells. *Biochem. Biophys. Res. Comm.*, **320**, 1175-1180. (with Tsukamoto, D.*** and Sarashina, I.)

_____ (2004): *Lymnaea stagnalis* as a model organism for studies of calcium carbonate biomineralization. In Kobayashi, I. ed., *Biomineralization: formation, diversity, evolution and application*, Tokai Univ. Press., Hadano, 172-175. (with Sarashina, I. and Asami, T.**)

- _____ (2004) Morphological and genetic comparisons between *Lingula adamsi* Dall, 1873 from South Korea and Japan. *Japanese J. Benthol.*, **59**, 14-19. (in Japanese with English abstract, with Sato, S.^{***} and Yamashita, H.^{**})
- _____ (2004): Macromolecules and historical information. In Ozawa, T., Setoguchi, T. and Hayami, I. eds., *Paleontological sciences 4. Evolution of past life*, Asakura Shoten, Tokyo, 111-138. (in Japanese)
- Hirai, H. (2004): Structural changes of gas hydrates and stability of a filled ice structure of methane hydrate above 42 GPa. *J. Phys. Chem. Solid*, **65**, 1555-1559. (with Tanaka, T.^{***}, Kawamura, T.^{**}, Yamamoto, Y.^{**} and Yagi, T.^{**})
- _____ (2004): Structural changes of methane hydrate and its meaning on geological and planetary sciences. *Jpn. Mag. Miner. Petrol. Sci.*, **33**, 121-128. (in Japanese with English abstract)
- _____ (2005): Pressure-induced structural changes of methane hydrate and their applications to reservoir techniques of natural resources. *Report of research project, Grant-in-Aid for Scientific Research*. (in Japanese)
- Hisada, K. (2004): Detrital chromian spinels from the Miocene Haccho Formation of the Mineoka Group and Sakuma Group, Boso Peninsula, central Japan. *J. Geol. Soc. Japan*, **110**, 237-243. (in Japanese with English abstract, with Okuzawa K.^{****})
- _____ (2004): Geologic traverse across the Chichibu and Shimanto accretionary complexes in the Kanto Mountains, central Japan. *Excursion Guidebook, 111th Ann. Meeting of Geol. Soc. Japan*. 17-33. (in Japanese, with Hara, H.^{**}, Ueno, H.^{**}, Ichise, M.^{**}, Okuzawa K.^{****}, Hirauchi, K.^{***}, Iyota, N.^{**}, Kamikawa, Y.^{**} and Yagi, N.^{**})
- _____ (2004): Permo-Triassic tectonic setting along the western margin of Indochina. *Gondwana Res.*, **7**, 1310-1312. (with Chutakositkanon, V.^{**}, Charusiri, P.^{**} and Ueno, K.^{**})
- _____ (2004): Detrital chromian spinels from the Minokuchi and Uzuhiki Formations in the Itsukaichi area of the Kanto Mountains, central Japan. *Ann. Rep., Inst. Geosci., Univ. Tsukuba*, no. 30, 45-51. (with Okuzawa, K.^{****}, Yagi, N.^{**} and Arai, S.^{**})
- _____ (2005): Asymmetric diagenetic change in a half-graben basin: the Kanmon Group (Lower Cretaceous), SW Japan. *Cretaceous Res.*, **26**, 73-84. (with Lee, Y. L.^{***} and Sur, K. H.^{**})
- _____ (2005): Geology of the Shimanto Belt in the area of the Ikawa Lake to the Hatanagi Lake, upperstream region of the Oi River, Shizuoka Prefecture, central Japan. *Bull. Tsukuba Univ. Forests*, **21**, 33-44. (in Japanese with English abstract, with Tokumine, S.^{****})
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- _____ (2004): The Kanasago Fauna and Flora from Pliocene Kume Formation in Kanasago-machi, Kuji-gun, Ibaraki Prefecture, Northern Kanto, Japan. *Ibid.*, 1, 169-174. (*in Japanese with English abstract*, with Horiuchi, J.^{***}, Kato, H.^{**}, Koda, Y.^{**}, Nikaido, A.^{**}, Noda, H.^{**}, Shimada, C.^{**}, Sugaya, M.^{**}, Takimoto, H.^{**}, Uyeno T.^{**} and Yamamoto, S.^{**})
- Kimata, M. (2005): Re-investigation of the crystal structure of whewellite [$\text{Ca}(\text{C}_2\text{O}_4) \cdot \text{H}_2\text{O}$] and the dehydration mechanism of caoxite [$\text{Ca}(\text{C}_2\text{O}_4) \cdot 3\text{H}_2\text{O}$]. *Mineral. Mag.*, **69**(1), 77-88. (with Echigo, T.^{***}, Kyono, A., Shimizu, M. and Hatta, T.^{**})
- _____ (2005): Crystal structures of chalcostibite (CuSbS_2) and emplectite (CuBiS_2): Structural relationship of stereochemical activity between chalcostibite and emplectite. *Amer. Mineral.*, **90**(1), 162-165. (with Kyono, A.^o)
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- _____ (2004): Development of cathodoluminescence (CL) geodosimeter: the relationship between He^+ dose density and CL color change. *Ibid.*, 165-170. (*in Japanese*, with Hatsuya, K.^{***}, Horikawa, Y.^{***} and Toyoda, S.^{**})
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