

Peer Reviewed Papers of Naohiro Yoshida as of 5th Jan., 2017;

233. K. Kuribayashi, Y. J. Orsolinic, H. Jin, N. Yoshida, Y. Kasai, Optimal retrieval method to estimate ozone vertical profile in the mesosphere and lower thermosphere (MLT) region from submillimeter-wave limb emission spectra, **Journal of Quantitative Spectroscopy and Radiative Transfer**, 2017, in press.
232. Masafumi Saitoh, Yuichiro Ueno, Fumihiro Matsu'ura, Tetsuya Kawamura, Yukio Isozaki, Jianxin Yao, Zhansheng Ji, Naohiro Yoshida, Multiple sulfur isotope records at the end-Guadalupian (Permian) at Chaotian, China: Implications for a role of bioturbation in the Phanerozoic sulfur cycle, **Journal of Asian Earth Sciences**, 2017, in press.
231. Masahide Ishizuka, Masao Mikami, Taichu Y Tanaka, Yasuhito Igarashi, Kazuyuki Kita, Yutaka Yamada; Naohiro Yoshida, Sakae Toyoda, Yukihiko Satou, Takeshi Kinase, Kazuhiko Ninomiya, Atsushi Shinohara, Use of a size-resolved 1-D resuspension scheme to evaluate resuspended radioactive material associated with mineral dust particles from the ground surface, **Journal of Environmental Radioactivity**, **166**, 436-448, <http://dx.doi.org/10.1016/j.jenvrad.2015.12.023>, 2017.
230. Sakiko Ishino, Shohei Hattori, Joel Savarino, Bruno Jourdain, Susanne Preunkert, Michel Legrand, Nicolas Caillon, Albane Barbero, Kota Kuribayashi, and Naohiro Yoshida, Seasonal variations of triple oxygen isotopic compositions of atmospheric sulfate, nitrate and ozone at Dumont d'Urville, coastal Antarctica, **Atmospheric Chemistry and Physics Discussions**, **1-25**, DOI: 10.5194/acp-2016-930, 2016.
229. Muhammad Ali, Rathnayake M.L.D. Rathnayake, Lei Zhang, Satoshi Ishii, Tomonori Kindaichi, Hisashi Satoh, Sakae Toyoda, Naohiro Yoshida, Satoshi Okabe, Source identification of nitrous oxide emission pathways from a single-stage nitrification-anammox granular reactor, **Water Research**, **102**, 147-157, doi: 10.1016/j.watres.2016.06.034, 2016.
228. Joachim Mohn, Wilhelm Gutjahr, Sakae Toyoda, Eliza Harris, Erkan Ibraim, Heike Geilmann, Patrick Schleppe, Thomas Kuhn, Moritz F. Lehmann, Charlotte Decock, Roland A. Werner, Naohiro Yoshida, Willi A. Brand, Reassessment of the NH₄NO₃ thermal decomposition technique for calibration of the N₂O isotopic composition: Reassessment of the NH₄NO₃ thermal decomposition technique, **Rapid Communications in Mass Spectrometry**, **30**, 2487-2496, doi: 10.1002/rcm.7736, 2016.
227. Shohei Hattori, Joel Savarino, Kazuki Kamezaki, Sakiko Ishino, Jens Dyckmans, Tamaki Fujinawa, Nicolas Caillon, Albane Barbero, Arata Mukotaka, Sakae Toyoda, Reinhard Well, Naohiro Yoshida, Automated system measuring triple oxygen and nitrogen isotope ratios in nitrate using the bacterial method and N₂O decomposition by microwave discharge, **Rapid Communications in Mass Spectrometry**, **30**, 2635-2644, DOI: 10.1002/rcm.7747, 2016.
226. Christine B. Wenk, Caitlin H. Frame, Keisuke Koba, Karen L. Casciotti, Mauro Veronesi, Helge Niemann, Carsten J. Schubert, Naohiro Yoshida, Sakae Toyoda, Akiko Makabe, Jakob Zopfi, Moritz F. Lehmann, Differential N₂O dynamics in two oxygen-deficient lake basins revealed by stable isotope and isotopomer distributions, **Limnol. Oceanogr.**, **61**, 1735–1749, doi: 10.1002/lno.10329, 2016.
225. Sato, Hisatoshi, Tahata, Miyuki, Sawaki, Yusuke, Maruyama, Shigenori, Yoshida, Naohiro, Shu, Degan, Han, Jian, Li, Yong, Komiya, Tsuyoshi, A high-resolution chemostratigraphy of post-Marinoan Cap Carbonate using drill core samples in the Three Gorges area, South China, **Geoscience Frontiers**, **7**, 663-671, DOI: 10.1016/j.gsf.2015.07.008, 2016.
224. Yoshikawa, C., Abe, H., Aita, M. N., Breider, F., Kuzunuki, K., Toyoda, S., Ogawa, N.O., Suga, H., Ohkouchi, N., Danielache, S.O., Wakita, M., Honda, M.C., and Yoshida, N., Insight into nitrous oxide production processes in the western North Pacific based on a marine ecosystem isotopomer model. **Journal of Oceanography**, **72(3)**, 491-508, doi:10.1007/s10872-015-0308-2. 2016.
223. Sakae Toyoda and Naohiro Yoshida, Development of automated preparation system for isotopocule analysis of N₂O in various air samples, **Atmospheric Measurement Techniques**, **9**, 2093-2101, doi:10.5194/amt-9-2093-2016, 2016.
222. Azzaya Tumendelger, Sakae Toyoda, Naohiro Yoshida, Hiroshi Shiomi, Rina Kouno, Isotopocule characterization of N₂O dynamics during simulated wastewater treatment under oxic and anoxic conditions, **Geochemical Journal**, **50**, 105-121, doi:10.2343/geochemj.2.0390, 2016.
221. Alexis Gilbert; Keita Yamada; Naohiro Yoshida, Evaluation of on-line pyrolysis coupled to isotope ratio mass spectrometry for the determination of position-specific ¹³C isotope composition of short chain n-alkanes (C₆-C₁₂), **Talanta**, **153**, 158–162, <http://dx.doi.org/10.1016/j.talanta.2016.03.014>, 2016.
220. Kazuki Kamezaki, Shohei Hattori, Takahiro Ogawa, Sakae Toyoda, Hiromi Kato, Yoko Katayama, and

- Naohiro Yoshida, Sulfur isotopic fractionation of carbonyl sulfide during degradation by soil bacteria, **Environ. Sci. Technol.**, **50**, 3537–3544, DOI: 10.1021/acs.est.5b05325, 2016.
219. K. Maeda, S. Toyoda, M. Yano, S. Hattori, M. Fukasawa, K. Nakajima, and N. Yoshida, Isotopically enriched ammonium shows high nitrogen turnover in the pile top zone of dairy manure compost, **Biogeosciences**, **13**, 1341–1349, doi:10.5194/bg-13-1341-2016, 2016.
218. Prosenjit Ghosh, Mikhail V. Vasiliev, Parthasarathi Ghosh, Soumen Sarkar, Sampa Ghosh, Keita Yamada, Yuichiro Ueno, Naohiro Yoshida & Christopher J. Poulsen, Tracking the migration of the Indian continent using the carbonate clumped isotope technique on Phanerozoic soil carbonates, **Scientific Reports**, **6**, DOI: 10.1038/srep22187, Published online: 02 March, 2016.
217. Alexis Gilbert; Keita Yamada; Konomi Suda; Yuichiro Ueno; Naohiro Yoshida, Measurement of position-specific ^{13}C isotopic composition of propane at the nanomole level, **Geochimica et Cosmochimica Acta**, **177**, 205–216, doi:10.1016/j.gca.2016.01.017, 2016.
216. Yamada K., Ohishi K., Gilbert A., Akasaka M., Yoshida N., Yoshimura R., Measurement of natural carbon isotopic composition of acetone in human urine, **Anal. Bioanal. Chem.**, **408**, 1597-1607, DoI: 10.1007/s00216-015-9268-z, 2016.
215. Tarin Nimmanwudipong, Zhang Naizhong, Alexis Gilbert, Keita Yamada and Naohiro Yoshida, Determination of intramolecular ^{13}C isotope distribution of pyruvate by headspace solid phase microextraction-gas chromatography/pyrolysis-gas chromatography/combustion-isotope ratio mass spectrometry (HSSPME-GC/Py-GC/C-IRMS) method, **Journal of Analytical & Bioanalytical Techniques**, **7**: 293. doi:10.4172/2155-9872.1000293, 2015.
214. Masafumi Saitoh, Yuichiro Ueno, Yukio Isozaki, Takazo Shibuya, Jianxin Yao, Zhansheng Ji, Katsumi Shozugawa, Motoyuki Matsuo and Naohiro Yoshida, Authigenic carbonate precipitation at the end-Guadalupian (Middle Permian) in China: Implications for the carbon cycle in ancient anoxic oceans, **Progress in Earth and Planetary Science** **2**:41, DOI 10.1186/s40645-015-0073-2, 2015.
213. Nimmanwudipong T., Gilbert A., Yamada K., Yoshida N., Analytical method for simultaneous determination of bulk and intramolecular ^{13}C -isotope compositions of acetic acid, **Rapid Commun. Mass Spectrom.**, **29**, 2337–2340, DOI: 10.1002/rcm.7398, 2015.
212. Sakae Toyoda, Naohiro Yoshida, and Keisuke Koba, Isotopocule analysis of biologically produced nitrous oxide in various environments, **Mass Spectrometry Reviews**, DOI 10.1002/mas.21459, 2015.
211. Tahata, M., Sawaki, Y., Ueno, Y., Nishizawa, M., Yoshida, N., Ebisuzaki, T., Komiya, T., Maruyama, S., Three-step modernization of the ocean: Modeling of carbon cycles and the revolution of ecological systems in the Ediacaran/Cambrian periods. **Geoscience Frontiers** **6**, 121-136, 2015.
210. Breider, Florian; Yoshikawa, Chisato; Abe, Hitomi; Toyoda, Sakae; Yoshida, Naohiro, Origin and fluxes of nitrous oxide along a latitudinal transect in western North Pacific: Controls and regional significance, **Global Biogeochemical Cycles**, **29**, 1014-1027, 2015
209. Ueno, Yuichiro; Danielache, Sebastian; Yoshida, Naohiro, Decoding redox evolution before oxygenic photosynthesis based on the sulfur-mass independent fractionation (S-MIF) record, **Origins of Life and Evolution of Biospheres**, **45**, 371-374, 2015
208. Chisato Yoshikawa, Akiko Makabe, Takuhei Shiozaki, Sakae Toyoda, Osamu Yoshida, Ken Furuya and Naohiro Yoshida, Nitrogen isotope ratios of nitrate and N^* anomalies in the subtropical South Pacific, **Geochemistry, Geophysics, Geosystems (G-Cubed)**, **16**, 1439-1448, DOI: 10.1002/2014GC005678, 2015.
207. Didier Gbe Diomande, Estelle Martineau, Alexis Gilbert, Pierrick Nun, Ariaki Murata, Keita Yamada, Naoharu Watanabe, Illa Tea, Richard John Robins, Naohiro Yoshida, Gerald Stanislas Remaud, Position-Specific Isotope Analysis of Xanthenes: a ^{13}C Nuclear Magnetic Resonance method to determine the ^{13}C intramolecular composition at natural abundance., **Analytical Chemistry**, **87**, 6600-6606, DOI:10.1021/acs.analchem.5b00559, 2015
206. Miyuki Tahata, Yusuke Sawaki, Kazumi Yoshiya, Manabu Nishizawa, Tsuyoshi Komiya, Takafumi Hirata, Naohiro Yoshida, Shigenori Maruyama, Brian F. Windley, The marine environments encompassing the Neoproterozoic glaciations: Evidence from C, Sr and Fe isotope ratios in the Hecla Hoek Supergroup in Svalbard, **Precambrian Research**, **263**, 19–42, doi:10.1016/j.precamres.2015.03.007, 2015.
205. Yun Zou, Yuhei Hirono, Yosuke Yanai, Shohei Hattori, Sakae Toyoda, Naohiro Yoshida, Rainwater, soil water, and soil nitrate effects on oxygen isotope ratios of nitrous oxide produced in a green tea *Camellia sinensis* field in Japan, **Rapid Communications in Mass Spectrometry**, **29**, 891-900, DOI:

- 10.1002/rcm.7176, 2015
204. Koki Maeda, Ayme Spor, Veronique Edel-Hermann, Cecile Heraud, Marie-Christine Breuil, Florian Bizouard, Sakae Toyoda, Naohiro Yoshida, Christian Steinberg & Laurent Philippot, N₂O production, a widespread trait in fungi, **Scientific Reports**, **5**, DOI: 10.1038/srep09697, 2015.
203. Yoshiaki Endo, Sebastian O. Danielache, Yuichiro Ueno, Shohei Hattori, Matthew S. Johnson, Naohiro Yoshida, Henrik G. Kjaergaard, Photoabsorption cross-section measurements of S-32, S-33, S-34, and S-36 sulfur dioxide from 190 to 220 nm, **J. Geophys. Res.-Atmosphere**, **120**, 2546–2557, DOI: 10.1002/2014JD021671, 2015.
202. Takuro Nunoura, Yoshihiro Takaki, Miho Hirai, Shigeru Shimamura, Akiko Makabe, Osamu Koide, Tohru Kikuchi, Junichi Miyazaki, Keisuke Koba, Naohiro Yoshida, Michinari Sunamura, and Ken Takai, Hadal biosphere: insight into the microbial ecosystem in the deepest ocean on Earth, **Proceedings of the National Academy of Sciences of the United States of America**, E1230–E1236, doi/10.1073/pnas.1421816112, 2015.
201. Shohei Hattori, Akari Toyoda, Sakae Toyoda, Sakiko Ishino, Yuichiro Ueno, and Naohiro Yoshida, Determination of the sulfur isotope ratio in carbonyl sulfide using gas chromatography/isotope ratio mass spectrometry on fragment ions ³²S⁺, ³³S⁺, and ³⁴S⁺, **Anal. Chem.**, **87**, 477–484, DOI: 10.1021/ac502704d, 2015.
200. Chisato Yoshikawa, Elena Hayashi, Keita Yamada, Osamu Yoshida, Sakae Toyoda, Naohiro Yoshida, Methane sources and sinks in the subtropical South Pacific along 17°S as traced by stable isotope ratios, **Chemical Geology**, **382**, 24–31, DOI: 10.1016/j.chemgeo.2014.05.024, 2014.
199. Kevin Bayle, Alexis Gilbert, Maxime Julien, Keita Yamada, Virginie Silvestre, Richard J. Robins, Serge Akoka, Naohiro Yoshida, Gérald S. Remaud, Conditions to obtain precise and true measurements of the intramolecular ¹³C distribution in organic molecules by isotopic ¹³C nuclear magnetic resonance spectrometry, **Analytica Chimica Acta**, **846**, 1–7, doi:10.1016/j.aca.2014.07.018, 2014.
198. Yamada, Keita; Gilbert, Alexis; Yoshida, Naohiro, Development of Methods for Measuring the Intramolecular Carbon Isotopic Composition of Organic Molecules, **Bunseki Kagaku**, **63**, 195–203, 2014.
197. Konomi Suda, Yuichiro Ueno, Motoko Yoshizaki, Hitomi Nakamura, Ken Kurokawa, Eri Nishiyama, Koji Yoshino, Yuichi Hongoh, Kenichi Kawachi, Soichi Omori, Keita Yamada, Naohiro Yoshida, Shigenori Maruyama, Reply to comment on “Origin of methane in serpentinite-hosted hydrothermal systems: The CH₄–H₂–H₂O hydrogen isotope systematics of the Hakuba Happo hot spring” by Suda et al. [Earth Planet. Sci. Lett. 386 (2014) 112–125], **Earth and Planetary Science Letters**, **401**, 376–377, doi:10.1016/j.epsl.2014.06.005, 2014.
196. Masafumi Saitoh, Yuichiro Ueno, Yukio Isozaki, Manabu Nishizawa, Katsumi Shozugawa, Tetsuya Kawamura, Jianxin Yao, Zhansheng Ji, Ken Takai, Naohiro Yoshida, and Motoyuki Matsuo, Isotopic evidence for water-column denitrification and sulfate reduction at the end-Guadalupian (Middle Permian), **Global and Planetary Change**, **123**, 110–120, <http://dx.doi.org/10.1016/j.gloplacha.2014.10.014>, 2014.
195. N. Zhang, K. Yamada, N. Suzuki, N. Yoshida, Factors controlling shell carbon isotopic composition of land snail *Acusta despecta sieboldiana* estimated from laboratory culturing experiment, **Biogeosciences**, **11**, 5335–5348, doi:10.5194/bg-11-5335-2014, 2014
194. T. Yamazaki, T. Hozuki, K. Arai, S. Toyoda, K. Koba, T. Fujiwara, N. Yoshida, Isotopomeric characterization of nitrous oxide produced by reaction of enzymes extracted from nitrifying and denitrifying bacteria, **Biogeosciences**, **11**, 2679–2689, doi:10.5194/bg-11-2679-2014, 2014.
193. Hiroyuki Haraguchi, Keita Yamada, Rumiko Miyashita, Kazuhiko Aida, Masao Ohnishi, Alexis Gilbert, Naohiro Yoshida, Determination of carbon isotopic measurement conditions for ceramide in skin using gas chromatography-combustion-isotope ratio mass spectrometry, **Journal of Oleo Science**, **63**, 1283–1291, doi : 10.5650/jos.ess14131, 2014.
192. Azzaya Tumendelger, Sakae Toyoda, Naohiro Yoshida, Isotopic analysis of N₂O produced in a conventional wastewater treatment system operated under different aeration conditions, **Rapid Commun. Mass Spectrom.**, **28**, 1883–1892, DOI: 10.1002/rcm.6973, 2014.
191. Y Zou, Y Hirono, Y Yanai, S Hattori, S Toyoda, and N Yoshida, Isotopomer analysis of nitrous oxide accumulated in soil cultivated with tea (*Camellia sinensis*) in Shizuoka, central Japan, **Soil Biology and Biochemistry**, **77**, 276–291, DOI: 10.1016/j.soilbio.2014.06.016, 2014.

190. Joachim Mohn, Benjamin Wolf, Sakae Toyoda, Cheng-Ting Lin, Mao-Chang Liang, Nicolas Brüggemann, Holger Wissel, Amy E. Steiker, Jens Dyckmans, Lars Szwece, Nathaniel E. Ostrom, Karen L. Casciotti, Matthew Forbes, Anette Gieseemann, Reinhard Well, Richard R. Doucett, Chris T. Yarnes, Anna R. Ridley, Jan Kaiser, and Naohiro Yoshida, Interlaboratory assessment of nitrous oxide isotopomer analysis by isotope ratio mass spectrometry and laser spectroscopy: current status and perspectives., **Rapid Communications in Mass Spectrometry**, **28**, 1995-2007, DOI: 10.1002/rcm.6982, 2014.
189. S Kawagucci, M Kobayashi, S Hattori, K Yamada, Y Ueno, K Takai, and N Yoshida, Hydrogen isotope systematics among H₂-H₂O-CH₄ during the growth of the hydrogenotrophic methanogen *Methanothermobacter thermoautotrophicus* strain ΔH, **Geochimica et Cosmochimica Acta**, **142**, 601-614, DOI: 10.1016/j.gca.2014.07.020, 2014.
188. Yamada K., Kikuchi M., Gilbert A., N Yoshida, N. Wasano, R. Hattori, S. Hirano, Evaluation of commercially available reagents as a reference material for intramolecular carbon isotopic measurements of acetic acid, **Rapid Commun. Mass Spectrom.**, **28**, DOI:10.1002/rcm.6964., 1821–1828, 2014.
187. Satoshi Ishii, Yangjun Song, Lashitha Rathnayake, Azzaya Tumendelger, Hisashi Satoh, Sakae Toyoda, Naohiro Yoshida, Satoshi Okabe, Identification of key N₂O production pathways in aerobic partial nitrifying granules, **Environmental Microbiology**, **16**; 3168-3180, DOI:10.1111/1462-2920.12458, 2014.
186. Kentaro Yamada, Yuichiro Ueno, Keita Yamada, Tsuyoshi Komiya, Jian Han, Degan Shu, Naohiro Yoshida, Shigenori Maruyama, Molecular fossils extracted from the Early Cambrian section in the Three Gorges area, South China, **Gondwana Research**, **25**, 10.1016/j.gr.2013.02.006, 1108–1119, 2014.
185. Tomoko Ishikawa, Yuichiro Ueno, Degan Shu, Yong Li, Jian Han, Junfeng Guo, Naohiro Yoshida, Shigenori Maruyama, Tsuyoshi Komiya, The δ¹³C excursions spanning the Cambrian explosion to the Canglangpuian mass extinction in the Three Gorges area, South China, **Gondwana Research**, **25**, 1045–1056, DOI: 10.1016/j.gr.2013.03.0101045–1056, 2014.
184. Konomi Suda, Yuichiro Ueno, Motoko Yoshizaki, Hitomi Nakamura, Ken Kurokawa, Eri Nishiyama, Koji Yoshino, Yuichi Hongoh, Kenichi Kawachi, Soichi Omori, Keita Yamada, Naohiro Yoshida, Shigenori Maruyama, Origin of methane in serpentinite-hosted hydrothermal systems: The CH₄-H₂-H₂O hydrogen isotope systematics of the Hakuba Happo hot spring, **Earth and Planetary Science Letters**, **386**, 112–125, 2014. Doi:10.1016/j.epsl.2013.11.001
183. Yano, M., Toyoda, S., Tokida, T. Hayashi, K., Hasegawa, T., Makabe, A., Koba, K., & Yoshida, N. Isotopomer analysis of production, consumption and soil-to atmosphere emission processes of N₂O at the beginning of paddy field irrigation, **Soil Biology & Biochemistry**, **70**, 66-78, DOI:10.1016/j.soilbio.2013.11.026, 2014.
182. Sato, T., Sagawa, H., Yoshida, N., Kasai, Y., Vertical profile of δ¹⁸O_{OO} from the middle stratosphere to lower mesosphere from SMILES spectra, **Atmospheric Measurement Techniques**, **7**, 941–958, 2014, doi:10.5194/amt-7-941-2014.
181. Takazo Shibuya, Miyuki Tahata, Yuichiro Ueno, Tsuyoshi Komiya, Ken Takai, Naohiro Yoshida, Shigenori Maruyama, Michael J. Russell, Decrease of seawater CO₂ concentration in the Late Archean: An implication from 2.6 Ga seafloor hydrothermal alteration, **Precambrian Research**, **236**, 59–64, doi:10.1016/j.precamres.2013.07.010, 2013.
180. T. Kato, K. Yamada, Y. Tang, N. Yoshida, E. Wada, Stable carbon isotopic evidence of methane consumption and production in three alpine ecosystems on the Qinghaie Tibetan Plateau, **Atom. Environ.**, **77**, 338–347, 2013
179. Ariaki Murata, Ulrich H Engelhardt, Peter Fleischmann, Keita Yamada, Naohiro Yoshida, Dieter Juchelka, Andreas Hilkert, Toshiyuki Ohnishi, Naoharu Watanabe, Peter Winterhalter, Purification and GC-C-IRMS of Aroma Compounds from Green Tea Products and Comparison to Bulk Analysis, **Journal of Agricultural and Food Chemistry**, **61**, 11321–11325, DOI:10.1021/jf403605a11/2013,
178. R.M.L.D. Rathnayake, Yan-jun Song, Azzaya Tumendelger, Mamoru Oshiki, Satoshi Ishii, Hisashi Satoh, Sakae Toyoda, Naohiro Yoshida, Satoshi Okabe, Source identification of nitrous oxide on autotrophic partial nitrification in a granular sludge reactor, **Water Research**, **47**, 7078–7086. DOI:10.1016/j.watres.2013.07.055, 2013.
177. Gilbert, Alexis; Yamada, Keita; Yoshida, Naohiro, Accurate method for the determination of intramolecular C-13 isotope composition of ethanol from aqueous solutions, **Analytical Chemistry**, **85**, 14, 6566-6570, DOI: 10.1021/ac401021p, 2013.

176. Kato, T., Toyoda, S., Yoshida, N., Tang, Y. and Wada, E., Isotopomer and isotopologue signatures of N₂O produced in alpine ecosystems on the Qinghai–Tibetan Plateau, **Rapid Commun. Mass Spectrom.**, **27**: 1517–1526, doi: 10.1002/rcm.6595, 2013.
175. Gilbert, Alexis; Yamada, Keita; Yoshida, Naohiro, Exploration of intramolecular C-13 isotope distribution in long chain n-alkanes (C-11-C-31) using isotopic C-13 NMR, **Organic Geochemistry**, **62**, 56-61, 10.1016/j.orggeochem.2013.07.004, 2013.
174. Arata Mukotaka, Sakae Toyoda, Naohiro Yoshida, Development of oxygen isotope analysis of nitrate using microwave discharge (in Japanese), **Chemical Industry**, **64**, 59-63, 2013.
173. Nakagawa M, Ueno Y., Yokoyama A., Yagi A., Yoshida N., The origin of sulfur in the lake Fukami-ike, Japan, **Rikunomizu (Limnology in Tokai Region of Japan)**, **59**. 15-19, 2013.
172. Masafumi Saitoh, Yukio Isozaki, Yuichiro Ueno, Naohiro Yoshida, Jianxin Yao, Zhansheng Ji, Middle-Upper Permian carbon isotope stratigraphy at Chaotian, South China: Pre-extinction multiple upwelling of oxygen-depleted water onto continental shelf, **Journal of Asian Earth Sciences**, **67-68**, 51-62, DOI: 10.1016/j.jseas.2013.02.009, 2013.
171. Shinsuke Kawagucci, Yuichiro Ueno, Ken Takai, Tomohiro Toki, Michihiro Ito, Kazuhiro Inoue, Akiko Makabe, Naohiro Yoshida, Yasuyuki Muramatsu, Naoto Takahata, Yuji Sano, Taku Narita, Genta Teranishi, Hajime Obata, Satoshi Nakagawa, Takuro Nunoura, Toshitaka Gamo, Geochemical origin of hydrothermal fluid methane in sediment-associated fields and its relevance to the geographical distribution of whole hydrothermal circulation, **Chemical Geology**, **339**, 213-225, 10.1016/j.chemgeo.2012.05.003, 2013.
170. Chisato Yoshikawa, V. Coles, R. Hood, D. Capone, Naohiro Yoshida, Modeling how surface nitrogen fixation influences subsurface nutrient patterns in the North Atlantic., **Journal of Geophysical Research – Ocean**, **118**, 2520–2534, 2013.
169. Arata Mukotaka, Sakae Toyoda, Naohiro Yoshida, Reinhard Well, On-line triple oxygen isotope analysis of nitrous oxide using decomposition by microwave discharge, **Rapid communications in mass spectrometry**, **27**, 2391-2398, doi:10.1102/rcm.6698, 2013.
168. Sake Toyoda, Natsuko Kuroki, Naohiro Yoshida, Kentaro Ishijima, Yasunori Tohjima, Toshinobu Machida, Decadal time series of tropospheric abundance of N₂O isotopomers and isotopologues in the northern hemisphere obtained by the long-term observation at Hateruma Island, Japan, **Journal of Geophysical Research: Atmospheres**, **118**, 3369–3381, doi:10.1002/jgrd.50221, 2013.
167. Shohei Hattori, Johan A. Schmidt, Matthew S Johnson, Sebastian Danielache, Akinori Yamada, Yuichiro Ueno, Naohiro Yoshida, SO₂ photoexcitation mechanism links mass-independent sulfur isotopic fractionation in cryospheric sulfate to climate impacting volcanism, **Proceedings of the National Academy of Sciences of the United States of America**, **110**, 17656–17661, doi: 10.1073/pnas.1213153110, 2013
166. Nishizawa, M., Koba, K., Makabe, A., Yoshida, N., Kaneko, M., Hirao, S., Ishibashi, J., Yamanaka, T., Shibuya, T., Kikuchi, T., Hirai, M., Miyazaki, J., Nunoura, T., Takai, K, Nitrification-driven forms of nitrogen metabolism in microbial mat communities thriving along an ammonium-enriched subsurface geothermal stream., **Geochimica et Cosmochimica Acta**, **113**, 152-173, doi: 10.1016/j.gca.2013.03.027, 2013
165. Naohiro Yoshida, Osamu Abe, Mikhail Vasilev, Keita Yamada, Prosenjit Ghosh, Maki Morimoto, Precision and long-term stability of clumped isotope analysis of CO₂ by a small sector isotope ratio mass spectrometer, **Rapid Communications in Mass Spectrometry**, **27**, 207-215, DOI:10.1002/rcm.6431, 2013
164. Koki Maeda, Dai Hanajima, Riki Morioka, Sakae Toyoda, Naohiro Yoshida & Takashi Osada, Mitigation of Greenhouse Gas Emission from Cattle Manure Composting Process by Use of a Bulking Agent, **Soil Science and Plant Nutrition**, **59**, 96-106, DOI:10.1080/00380768.2012.733868, 2013
163. Koki Maeda, Sakae Toyoda, Dai Hanajima, Naohiro Yoshida, Denitrifiers in the surface zone are primarily responsible for the nitrous oxide emission of dairy manure compost, **Journal of Hazardous Materials**, **248-249**, 329– 336, doi:10.1016/j.jhazmat.2013.01.041, 2013
162. Miyuki Tahata, Yuichiro Ueno, Tomoko Ishikawa, Yusuke Sawaki, Kazuki, Murakami, Jian Han, Degan Shu, Yong Li, Junfeng Guo, Naohiro Yoshida, Tsuyoshi Komiya, Carbon and oxygen isotope chemostratigraphies of the Yangtze platform, South China: Decoding temperature and environmental changes through the Ediacaran, **Gondwana Research**, **23**, 333–353, doi:10.1016/j.gr.2012.04.005, 2013
161. Masafumi Saitoh, Yukiko Isozaki, Jianxin Yao, Jansheng Ji, Yuichiro Ueno, Naohiro Yoshida, The appearance of an oxygen-depleted condition on the Capitanian disphotic slope/basin in South China: Middle-Upper Permian stratigraphy at Chaotian in northern Sichuan. **Global and Planetary Change**, **105**, doi:10.1016/j.gloplacha.2012.01.002, 180–192, doi:10.1016/j.gloplacha.2012.01.002, 2013

160. Tomoko Ishikawa, Yuichiro Ueno, D. Shu, Y. Li, J. Han, J. Guo, Naohiro Yoshida, Tsuyoshi Komiya, Irreversible change of the oceanic carbon cycle in the earliest Cambrian: High-resolution organic and inorganic carbon chemostratigraphy in the Tree Gorges area, South China, **Precambrian Research**, **225**, 190–208, doi:10.1016/j.precamres.2011.10.004, 2013
159. Ayako Fujii, Sakae Toyoda, Osamu Yoshida, Shuichi Watanabe, Ken'ichi Sasaki, Naohiro Yoshida, Distribution of nitrous oxide dissolved in water masses in the eastern subtropical North Pacific and its origin inferred from isotopomer analysis, **J Oceanography**, **69**, 147-157, DOI:10.1007/s10872-012-0162-4, 2013
158. Antra Priyadarshi, Jason Hill-Falkenthal, Mark Thiemens, Naohiro Yoshida, Sakae Toyoda, Keita Yamada, Arata Mukotaka, Ayako Fujii, Mitsuo Uematsu, Shiro Hatakeyama, Izumi Noguchi, Yukihiko Nojiri, Hiroshi Tanimoto, Detection of radioactive ³⁵S at Fukushima and other Japanese sites, **J. Geophys. Res.-Atmosphere**, **118**, 1020–1027, doi:10.1029/2012JD018485, 2013
157. Johan Schmidt, Matthew Johnson, Shohei Hattori, Naohiro Yoshida, Shinko Nanbu, Reinhard Schinke, OCS photolytic isotope effects from first principles: sulfur and carbon isotopes, temperature dependence and implications for the stratosphere, **Atmos. Chem. Phys.**, **13**, 1511-1520, doi:10.5194/acp-13-1511-2013, 2013.
156. Alain Chaintreau, Wolfgang Fieber, Horst Sommer, Alexis Gilbert, Keita Yamada, Naohiro Yoshida, Alain Pagelot, Detlef Moskau, Aitor Moreno, Jürgen Schleucher, Fabiano Reniero, Margaret Holland, Claude Guillou, Virginie Silvestre, Serge Akoka, Gérald S. Remaud, Site-specific ¹³C content by quantitative isotopic ¹³C Nuclear Magnetic Resonance spectrometry: A pilot inter-laboratory study, **Analytica Chimica Acta**, **788**, 108-113, 2013
155. Alexis Gilbert, Ryota Hattori, Virginie Silvestre, Nariaki Wasano, Serge Akoka, Satoshi Hirano, Keita Yamada, Naohiro Yoshida, Gérald S. Remaud, Comparison of IRMS and NMR spectrometry for the determination of intramolecular ¹³C isotope composition: Application to ethanol, **Talanta** **99**, 1035-1039, 2012.
154. Nobuhito Ohte, Ichiro Tayasu, Ayato Kohzu, Chikage Yoshimizu, Ken'ichi Osaka, Akiko Makabe, Keisuke Koba, Naohiro Yoshida, Toshi Nagata, Correction to “Spatial distribution of nitrate sources of rivers in the Lake Biwa watershed, Japan: Controlling factors revealed by nitrogen and oxygen isotope values”, **Water Resources Research** **48**, DOI: 10.1029/2012WR012549, 2012
153. J. Mohn, B. Tuzson, A. Manninen, N. Yoshida, S. Toyoda, W. A. Brand, and L. Emmenegger, Site selective real-time measurements of atmospheric N₂O isotopomers by laser spectroscopy, **Atmospheric Measurement Techniques**, **5**, 1601-1609, doi:10.5194/amt-5-1601-2012, 2012.
152. Yaeko Suzuki, Yoshito Chikaraishi, Keita Yamada, Naohiro Yoshida, Interlaboratory comparison of carbon, nitrogen, and oxygen isotope ratios in organic chemicals using elemental analyzer-isotope ratio mass spectrometer (in Japanese), **Bunseki Kagaku**, **61**, 805-810, doi:10.2116/bunsekikagaku.61.805, 2012
151. Ryu Uemura, Nao Yonezawa, Kei Yoshimura, Ryuji Asami, Hisashi Kadena, Keita Yamada, Naohiro Yoshida, Factors controlling isotopic composition of precipitation on Okinawa Island, Japan: Implications for paleoclimate reconstruction in the East Asian Monsoon region, **Journal of Hydrology**, **475**, 314–322, doi:10.1016/j.jhydrol.2012.10.014, 2012
150. Sebastian Danielache, Shohei Hattori, Matthew Johnson, Yuichiro Ueno, Shinko Nanbu, Naohiro Yoshida, Photo absorption cross-section measurements of ³²S, ³³S, ³⁴S and ³⁶S sulfur dioxide for the B1B1-X1A1 absorption band, **J. Geophys. Res. Atmos.**, **117**, D24301, 1-11, doi:10.1029/2012JD017464, 2012
149. Mituru Ebihara, Naohiro Yoshida and Yoshio Takahashi, Preface: Migration of radionuclides from the Fukushima Daiichi Nuclear Power Plant accident, **Geochemical Journal**, **46**, 267-270, 2012
148. Sebastian Danielache, Chisato Yoshikawa, A. Priyadarshi, T. Takemura, Yuichiro Ueno, Matthew Johnson, Naohiro Yoshida, An estimation of the radioactive ³⁵S emitted into the atmospheric from the Fukushima Daiichi Nuclear Power Plant by using a numerical simulation global transport, **Geochemical Journal**, **46**, 335-339, 2012
147. J. A. Schmidt, M. S. Johnson, Y. Jung, S. O. Danielache, S. Hattori, N. Yoshida, Predictions of the sulfur and carbon kinetic isotope effects in the OH + OCS reaction, **Chemical Physics Letters**, **531**, 64–69, doi:10.1016/j.cplett.2012.02.049, 2012
146. Kiyoshi Tsuji, Hiroaki Teshima, Hiroyuki Sasada, Naohiro Yoshida, Spectroscopic isotope ratio measurement of doubly-substituted methane, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, **98**, 43–46, doi10.1016/j.saa.2012.08.028, 2012

145. Naohiro Yoshida, Jota Kanda, Tracking the Fukushima Radionuclides, **Science**, **336**, 1115-1116, doi:10.1126/science.1219493, 2012
144. Kazumi Yoshiya, M.D. Manabu Nishizawa, Yusuke Sawaki, Yuichiro Ueno, Tsuyoshi Komiya, Keita Yamada, Naohiro Yoshida, Takafumi Hirata, Hideki Wad, Shigenori Maruyama, In-situ iron isotope analyses of pyrite and organic carbon isotope ratios in the Fortescue Group: metabolic variations of a late Archean ecosystem, **Precambrian Research**, **212**, 169-193, DOI:10.1016/j.precamres.2012.05.003, 2012
143. Shohei Hattori, Hiroaki Nashimoto, Hiroyuki Kimura, Keisuke Koba, Keita Yamada, Mikio Shimizu, Hiroshi Watanabe, Muneoki Yoh, Naohiro Yoshida, Hydrogen and carbon isotope fractionation by thermophilic hydrogenotrophic methanogens from a deep aquifer under coculture with fermenters, **Geochemical Journal**, **46**, 193-200, 2012
142. Nakagawa, Mayuko, Yuichiro Ueno, Shohei Hattori, Maki Umemura, Akihiko Yagi, Ken Takai, Keisuke Koba, Yuji Sasaki, Akiko Makabe, Naohiro Yoshida, Seasonal change in microbial sulfur cycling in monomictic Lake Fukami-ike, Japan, **Limnology & Oceanography**, **57**, 974-988, doi:10.4319/lo.2012.57.4.0974, 2012
141. Chen Wu, Keita Yamada, Osamu Sumikawa, Akiko Matsunaga, Alexis Gilbert, Naohiro Yoshida, Development of a methodology using gas chromatography-combustion-isotope ratio mass spectrometry for the determination of the carbon isotope ratio of caffeine extracted from tea leaves (*Camellia sinensis*), **Rapid Communications in Mass Spectrometry**, **26**, 978-982, doi:10.1002/rcm.6177, 2012
140. Johan Schmidt, Y. Jung, Shohei Hattori, Sebastian Danielache, Matthew Johnson, Naohiro Yoshida, Predictions of the sulfur and carbon kinetic isotope effects in the OH + OCS reaction, **Chemical Physics Letters**, **531**, 64-69, doi:10.1016/j.cplett.2012.02.049, 2012
139. Naohiro Yoshida, Yoshio Takahashi, Land-surface contamination by radionuclides from the Fukushima Daiichi Nuclear Power Plant accident, **Elements**, **8**, 201-206, 2012.
138. Shohei Hattori, Johan Albrecht Schmidt, Denis Mahler, Sebastian Danielache, Matthew Johnson, Naohiro Yoshida, Isotope Effect in the Carbonyl Sulfide Reaction with O(3P), **Journal of Physical Chemistry**, **116**, 14, 3521-3526, doi:10.1021/jp2120884, 2012
137. Keisuke Koba, Yunting Fang, Jiangming Mo, Wei Zhang, Xiankai Lu, Lei Liu, Tao Zhang, Yu Takebayashi, Sakae Toyoda, Naohiro Yoshida, Keisuke Suzuki, Muneoki Yoh, Keishi Senoo, The ¹⁵N natural abundance of the N lost from an N-saturated subtropical forest in southern China, **Journal of Geophysical Research**, **117**, G02015, doi:10.1029/2010JG001615, 2012.
136. M. B. Enghoff, N. Bork, Shohei Hattori, C. Meusinger, Mayuko Nakagawa, J. O. Pepke Pedersen, Sebastian Danielache, Yuichiro Ueno, Matthew Johnson, Naohiro Yoshida, H. Svensmark, An isotopic analysis of ionising radiation as a source of sulphuric acid, **Atmospheric Chemistry and Physics**, **12**(12), 5319-5327, 2012
135. Takazo Shibuya, Miyuki Tahata, Kouki Kitajima, Yuichiro Ueno, Tsuyoshi, Komiya, Shinji, Yamamoto, Motoko Igisu, Masaru Terabayashi, Yusuke Sawaki, Ken Takai, Naohiro Yoshida, Shigenori Maruyama, Depth variation of carbon and oxygen isotopes of calcites in Archean altered upperoceanic crust: Implications for the CO₂ flux from ocean to oceanic crust in the Archean, **Earth and Planetary Science Letters**, **321-322**, 64-73, 2012.
134. Shinsuke Kawagucci, Hitoshi Chiba, Jun-ichiro Ishibashi, Toshiro Yamanaka, Tomohiro Toki, Yasuyuki Muramatsu, Yuichiro Ueno, Akiko Makabe, Kazuhiro Inoue, Naohiro Yoshida, Satoshi Nakagawa, Takuro Nunoura, Ken Takai, Naoto Takahata, Yuji Sano, Taku Narita, Genta Teranishi, Hajime Obata, Toshitaka Gamo, Hydrothermal fluid geochemistry at the Iheya North field in the mid-Okinawa Trough: Implication for origin of methane in subseafloor fluid circulation systems., **Geochem. J.**, **45**, 109-124, 2011.
133. Koki Maeda, Dai Hanajima, Sakae Toyoda, Naohiro Yoshida, Riki Morioka, and Takashi Osada, Microbiology of nitrogen cycle in animal manure compost., **Microbial Biotechnology**, **4**, 700-709, doi:10.1111/j.1751-7915.2010.00236.x, 2011.
132. Sasaki, Y., Keisuke Koba, M. Yamamoto, Akiko Makabe, Yuichiro Ueno, Mayuko Nakagawa, Sakae Toyoda, Naohiro Yoshida, Muneoki Yoh, Biogeochemistry of nitrous oxide in Lake Kizaki, Japan, elucidated by nitrous oxide isotopomer analysis., **J. Geophys. Res.**, **116**, G04030:1-10, doi:10.1029/2010JG001589, 2011.
131. Shohei Hattori, Sebastian Danielache, Matthew Johnson, Johan Schmidt, H. Kjaergaard, Sakae Toyoda, Yuichiro Ueno, Naohiro Yoshida, Ultraviolet absorption cross sections of carbonyl sulfide isotopologues

- OC32S, OC33S, OC34S and O13CS: isotopic fractionation in photolysis and atmospheric implications, **Atmos. Chem. Phys.**, **11**, 10293-10303, doi: 10.5194/acp-11-10293-2011, 2011.
130. Sakae Toyoda, Midori Yano, Sei-ichi Nishimura, Hiroko Akiyama, Atsushi Hayakawa, Keisuke Koba, Shigeto Sudo, Kazuyuki Yagi, Akiko Makabe, Yoshifumi Tobari, Nanako O. Ogawa, and Naohiko Ohkouchi, Keita Yamada, and Naohiro Yoshida, Characterization and production and consumption processes of N₂O emitted from temperate agricultural soils determined via isotopomer ratio analysis, **Global Biogeochemical Cycles**, **25**, GB2008, doi:10.1029/2009GB003769, 2011.
129. Ryota Hattori, Keita Yamada, M. Kikuchi, S. Hirano, Naohiro Yoshida, Intramolecular Carbon Isotope Distribution of Acetic Acid in Vinegar., **Journal of Agricultural and Food Chemistry**, **59**, 9049-9053, doi:10.1021/jf200227e, 2011.
128. Sakae Toyoda, Yuuri Suzuki, Shohei Hattori, Keita Yamada, Ayako Fujii, Naohiro Yoshida, Rina, Kouno, Kouki Murayama, and Hiroshi Shiomi, Isotopomer analysis of production and consumption mechanisms of N₂O and CH₄ in an advanced wastewater treatment system., **Environ. Sci. Technol.**, **45**, 917–922, doi: 10.1021/es102985u, 2011.
127. Masayuki Itoh, Yasuhiro Takemon, Akiko Makabe, Chikage Yoshimizu, Ayato Kohzu, Nobuhito Ohte, Dashzeveg Tumurskh, Ichiro Tayasu, Naohiro Yoshida, Toshi Nagata, Evaluation of wastewater nitrogen transformation in a natural wetland (Ulaanbaatar, Mongolia) using dual-isotope analysis of nitrate., **Science of the Total Environment**, **409**, 1530-1538, doi:10.1016/j.scitotenv.2011.01.019, 2011.
126. G. Etiope, R. Nakada, K. Tanaka, N. Yoshida, Gas seepage from Tokamachi mud volcanoes, onshore Niigata Basin (Japan): Origin, post-genetic alterations and CH₄-CO₂ fluxes, **Applied Geochemistry**, **26**, 348-359, doi:10.1016/j.apgeochem.2010.12.008, 2011.
125. Takuya Saito, Olaf Stein, Urumu Tsunogai, Kimitaka Kawamura, Takeshi Nakatsuka, Toshitaka Gamo, and Naohiro Yoshida, Stable carbon isotope ratios of ethane over the North Pacific: Atmospheric measurements and global chemical transport modeling, **J. Geophys. Res.**, **116**, D02308, doi:10.1029/2010JD014602, 2011.
124. Tahata, M, Ueno, Y, Kikumoto, R, Naohiro Yoshida, Shigenori Maruyama, Decoding carbon cycle and climatic change by C, O and N isotopes of the Ediacaran carbonate rocks in South China, **Geochimica Et Cosmochimica Acta**, **74**, A1019, 2010.
123. Keita Yamada, Ryota Hattori, Yuji Ito, Hiroki Shibata and Naohiro Yoshida, Determination of carbon isotope ratios of methanol and acetaldehyde in air samples by gas chromatography-isotope ratio mass spectrometry combined with headspace solid-phase microextraction, **Isotopes in Environmental and Health Studies**, **46**, 1–8, DOI: 10.1080/10256016.2010.505686, 2010.
122. Kiyoshi Tsuji, Hiroaki Teshima, Hiroyuki Sasada and Naohiro Yoshida, Efficient and Compact Difference-Frequency-Generation Spectrometer and Application to Isotope Ratio Measurement of ¹²CH₃D/¹²CH₄, **Sensors**, **10**, 6612-6622; doi:10.3390/s100706612, 2010.
121. R. Hattori, K. Yamada, H. Shibata, S. Hirano, O. Tajima, and N. Yoshida, Measurement of the Isotope Ratio of Acetic Acid in Vinegar by HS-SPME-GC-TC/C-IRMS, **J. Agric. Food Chem.**, **58**, 7115–7118 7115, DOI:10.1021/jf100406y, 2010.
120. J. Mohn, C. Guggenheim, B. Tuzson, M. K. Vollmer, S. Toyoda, N. Yoshida, and L. Emmenegger, A liquid nitrogen-free preconcentration unit for measurements of ambient N₂O isotopomers by QCLAS, **Atmos. Meas. Tech.**, **3**, 609–618, doi:10.5194/amt-3-609-2010, 2010.
119. Yusuke Sawaki, Takahiro Kawai, Takazo Shibuya, Miyuki Tahata, Soichi Omori, Tsuyoshi Komiya, Naohiro Yoshida, Takafumi Hirata, Takeshi Ohno, Brian F Windley, Shigenori Maruyama, 87Sr/86Sr chemostratigraphy of Neoproterozoic Dalradian carbonates below the Port Askaig Glaciogenic Formation, Scotland, **Precambrian Research**, **179**, 150–164, doi:10.1016/j.precamres.2010.02.021, 2010.
118. Nobuhito Ohte, Ichiro Tayasu, Ayato Kohzu, Chikage Yoshimizu, Ken'ichi Osaka, Akiko Makabe, Keisuke Koba, Naohiro Yoshida and Toshi Ngata, Spatial distribution of nitrate sources of rivers in the Lake Biwa watershed, Japan: Controlling factors revealed by nitrogen and oxygen isotope values, **Water Resources Research**, **46**, W07505, 16 PP., doi:10.1029/2009WR007871, 2010.
117. Yoshifumi, Tobari, Koba, Keisuke, Fukushima, Keitaro, Tokuchi, Naoko; Ohte, Nobuhito, Tateno, Ryunosuke; Toyoda, Sakae; Yoshioka, Takahito; Yoshida, Naohiro, Contribution of atmospheric nitrate to stream-water nitrate in Japanese coniferous forests revealed by oxygen isotope ratio of nitrate, **Rapid Communications in Mass Spectrometry**, **24**, 1-6, DOI: 10.1002/rcm.4498, 2010.

116. Osamu Abe, Atsushi Watanabe, Vvss Sarma, Yohei Matsui, Hiroya Yamano, Naohiro Yoshida, and Toshiro Saino, Air-sea gas transfer in a shallow, flowing and coastal environment estimated by dissolved inorganic carbon and dissolved oxygen analyses., **Journal of Oceanography**, 66, 363-372, DOI: 10.1007/s10872-010-0032-x 2010, 2010.
115. Koki Maeda, Sakae Toyoda, Ryosuke Shimojima, Takashi Osada, Dai Hanajima, Riki Morioka and Naohiro Yoshida, Source of Nitrous Oxide Emissions during the Cow Manure Composting Process as Revealed by Isotopomer Analysis of and *amoA* Abundance in Betaproteobacterial Ammonia-Oxidizing Bacteria., **Applied and Environmental Microbiology**, 76, 1555-1562, doi:10.1128/AEM.01394-09, 2010.
114. Hiroyuki Kimura, Hiroaki Nashimoto, Mikio Shimizu, Shohei Hattori, Keita Yamada, Keisuke Koba, Naohiro Yoshida and Kenji Kato, Microbial methane production in deep aquifer associated with the accretionary prism in Southwest Japan, **The ISME Journal**, 4, 531-541, doi:10.1038/ismej.2009.132, 2010.
113. Hiroyuki Kimura, Kousuke Mori, Hiroaki Nashimoto, Shohei Hattori, Keita Yamada, Keisuke Koba, Naohiro Yoshida and Kenji Kato, Biomass production and energy source of thermophiles in a Japanese alkaline geothermal pool, **Environmental Microbiology**, 12, 480-489, DOI: 10.1111/j.1462-2920.2009.02089.x, 2010.
112. Yoshiya, K., Sakurai, R., Nishizawa, M, Ueno, Y., Maruyama. S., Yoshida, N, Carbon isotope analyses of kerogen from Tumbiana Formation, Fortescue Group shown possibility of the environmental redox changes, **Geochimica Et Cosmochimica Acta**, 73, A1487, 2009.
111. Ueno, Y., Danielache, S. O., Johnson, M. S., Yoshida, N., Carbonyl sulfide (OCS) in the Archean atmosphere, **Geochimica Et Cosmochimica Acta**, 73, A1358, 2009.
110. Ghosh, P., Vasiliev, M., Sarkar, S., Yamada, K., Yoshida, N., Latitudinal position of Indian Plate during Phanerozoic period; revealed based on abundances of C-13-O-18 bonds in palaeosol carbonates, **Geochimica Et Cosmochimica Acta**, 73, A432, 2009.
109. Shibuya, T., Tahata, M., Ueno, Y., Maruyama, S., Yoshida, N., Middle Archean CO₂ flux into oceanic crust from ocean, **Geochimica Et Cosmochimica Acta**, 73, A1211, 2009.
108. Yamada, K., Ueno, Y., Maruyama, S., Yoshida, N., Molecular fossils extracted from an Ediacaran/Cambrian boundary section in the Three Gorge area, South China, **Geochimica Et Cosmochimica Acta**, 73, A1467, 2009.
107. Keita Yamada, Ryota Hattori, Yuji Ito, Hiroki Shibata, Naohiro Yoshida, Carbon isotopic signatures of methanol and acetaldehyde emitted from biomass burning source, **Geophys. Res. Lett.**, 36, L18807, doi:10.1029/2009GL038962, 2009.
106. Yuichiro Ueno, Matthew S. Johnson, Sebastian O. Danielache, Carsten Eskebjerg, Antra Pandey, Naohiro Yoshida, Geological Sulfur Isotopes Indicate Elevated OCS in the Archean Atmosphere, Solving Faint Young Sun Paradox, **Proceedings of the National Academy of Science, USA.**, 106, 14784-14789, doi: 10.1073/pnas.0903518106, 2009.
105. Osamu Abe, Seizen Agata, Maki Morimoto, Manabu Abe, Kei Yoshimura, Tetsuya Hiyama, Naohiro Yoshida, A 6.5-year continuous record of sea surface salinity and seawater isotopic composition at Harbor of Ishigaki Island, southwest Japan, **Isotopes in Environmental and Health Studies**, 45, 247 - 258, DOI: 10.1080/10256010903083847, 2009.
104. S. Danielache, S. Nanbu, C. Eskerberg, M. Johnson, and N. Yoshida, Carbonyl Sulfide Isotopologues: Ultraviolet Absorption Cross Sections and Stratospheric Photolysis, **J. Chem. Phys.**, 131, 024307, 2009, doi:10.1063/1.3156314.
103. K. Koba, K. Osaka, Tobar, S. Toyoda, N. Ohte, M. Katsuyama, N. Suzuki, M. Itoh, H. Yamagishi, M. Kawasaki, S. Kim, N. Yoshida and T. Nakajima, Biogeochemistry of nitrous oxide in groundwater in a forested ecosystem elucidated by nitrous oxide isotopomer measurements, **Geochim. Cosmochim. Acta**, 73, 3115-3133, 2009.
102. Laura Farias, Maribeb Castro-Gonzalez, Marcela Cornejo, Jose Charpentier, and Juan Faundez, Narin Boontanon and Naohiro Yoshida, Denitrification and nitrous oxide cycling within the upper oxycline of the oxygen minimum zone off the eastern tropical South Pacific, **Limnol. Oceanogr.**, 54, 132-144, 2009.
101. Toyoda, S., H. Iwai, K. Koba, N. Yoshida, Isotopomeric analysis of N₂O dissolved in a river in the Tokyo metropolitan area, **Rapid Communications in Mass Spectrometry**, 23, 809-821, 2009.

100. Ueno, Y., Nakagawa, M., Yoshida, N, Biological fractionations of quadruple sulfur isotopes in a stratified lake, **Geochimica Et Cosmochimica Acta**, **72**, A965, 2008.
99. Tsuruoka, S., Ueno, Y., Komiya, T., Maruyama, S., Yoshida, N., Quadruple Sulfur isotope analysis of similar to 2.9 Ga Pongola Supergroup, **Geochimica Et Cosmochimica Acta**, **72**, A960, 2008.
98. Nakagawa, M., Ueno, Y., Yoshida, N., Quadruple sulfur isotope analysis of sulfur cycle in a stratified lake, **Geochimica Et Cosmochimica Acta**, **72**, A928, 2008.
97. Yoshida, N., Some innovative measurements and analyses of isotopically substituted molecules of geochemical interests, **Geochimica Et Cosmochimica Acta**, **72**, A1064, 2008.
96. T. Ishikawa, Y. Ueno, T. Komiya, Y. Sawaki, J. Han, D. Shu, Y. Li, S. Maruyama, N. Yoshida, Carbon isotope chemostratigraphy of a Precambrian/Cambrian boundary section in the Three Gorge area, South China: prominent global-scale isotope excursions just before the Cambrian Explosion., **Gondwana Research**, **14**, 193-208, 2008.
95. Ryota Hattori, Keita Yamada, Kaori, Hasegawa, Yumi Ishikawa, Yuji, Ito, Yuji Sakamoto, Naohiro Yoshida, An improved method for measurement of isotope ratio of ethanol in various samples, including alcoholic and non-alcoholic beverages., **Rapid Communications in Mass Spectrometry**, **22**, 3410-3414, DOI: 10.1002/rcm.3753, 2008.
94. Ryu Uemura, Yohei Matsui, Kei Yoshimura, Hideaki Motoyama, Naohiro Yoshida, Evidence of deuterium excess in water vapor as an indicator of ocean surface conditions, **Journal of Geophysical Research (Atmosphere)**, **113**, D19114, doi:10.1029/2008JD010209, 2008.
93. Danielache, S. O., C. Eskebjerg, M. S. Johnson, Y. Ueno, and N. Yoshida, High-precision spectroscopy of ³²S, ³³S, and ³⁴S sulfur dioxide: Ultraviolet absorption cross sections and isotope effects, **J. Geophys. Res.**, **113**, D17314, doi:10.1029/2007JD009695, 2008.
92. Toyoda, S., S. Yamamoto, S. Arai, H. Nara, N. Yoshida, K. Kashiwakura, K. Akiyama, Isotopomeric characterization of N₂O produced, consumed, and emitted by automobiles, **Rapid Communications in Mass Spectrometry**, **22**, 603-612, DOI: 10.1002/rcm.3400, 2008.
91. Sebastian, O. Danielache; Matthew S Johnson, Shinkoh Nanbu, Mette M, Grage, Chris Mclinden, Naohiro Yoshida, Ab initio study of sulfur isotope fractionation in the reaction of OCS with OH, **Chemical Physics Letters**, **450**, 214-220, 2008.
90. Ghosh, P., Yamada, K., Yoshida, N., Isotopic composition of methane and Sigma CO₂ from arsenic affected area of West Bengal, India, **Geochimica Et Cosmochimica Acta**, **71**, A320, 2007.
89. H. Nara, S. Toyoda, and N. Yoshida, Measurements of stable carbon isotopic composition of ethane and propane over the western North Pacific and eastern Indian Ocean: a useful indicator of atmospheric transport process, **Journal of Atmospheric Chemistry**, **56**, 293-314, DOI: 10.1007/s10874-006-9057-3, 2007.
88. Kohshima S, Takeuchi N, Uetake J, Shiraiwa T, Uemura R, Yoshida N, Matoba S, & Godoi MA, Estimation of net accumulation rate at a Patagonian glacier by ice core analyses using snow algae., **Global and Planetary Change**, **59**, 236-244, 2007.
87. K. Yamada, N. Yoshida, G. Calderone, and C. Guillou, Determination of hydrogen, carbon and oxygen isotope ratios of ethanol in water at millimole levels, **Rapid Communications in Mass Spectrometry**, **21**, 1431-1437, DOI 10.1002/rcm2977, 2007.
86. Ryu Uemura, Yohei Matsui, Hideaki Motoyama, and Naohiro Yoshida, Deuterium and oxygen-18 determination of microliter quantities of a water sample using an automated equilibrator, **Rapid Commun. Mass Spectrom.**, **21**, 1783-1790, DOI: 10.1002/rcm.3022, 2007.
85. F. Parrenin, G. Dreyfus, G. Durand, S. Fujita, O. Gagliardini, F. Gillet, J. Jouzel, K. Kawamura, N. Lhomme, V. Masson-Delmotte, C. Ritz, J. Schwander, H. Shoji, R. Uemura, O. Watanabe, and N. Yoshida, 1-D-ice flow modeling at EPICA Dome C and Dome Fuji, East Antarctica, **Clim. Past**, **3**, 243-259, 2007.
84. J. Charpentier, L. Farias, N. Yoshida, N. Boontanon, and P. Raimbault, Nitrous oxide distribution and its origin in the central and eastern South Pacific Subtropical Gyre, **Biogeosciences Discussions**, **4**, 1673-1702, 2007.
83. Yamagishi H., M. B. Westley, B. N. Popp, S. Toyoda, N. Yoshida, S. Watanabe, K. Koba, Y. Yamanaka, Role of nitrification and denitrification on the nitrous oxide cycle in the eastern tropical North Pacific and Gulf of California, **J. Geophys. Res.-Biogeosciences**, **112**, G02015, doi:10.1029/2006JG000227, 2007.
82. M. Sorai, N. Yoshida, and M. Ishikawa, Biogeochemical simulation of nitrous oxide cycle based on the major nitrogen processes, **J. Geophys. Res.**, **112**, G01006, doi:10.1029/2005JG000109, 2007.

81. K. Anzai, H. Sasada, and N. Yoshida, Best pair of 3.3- μ m band transitions for isotopomer abundance ratio measurements of $^{13}\text{CH}_4$ to $^{12}\text{CH}_4$, **Jpn J. Appl. Phys.**, **46**, 1717-1721, 2007
80. V. Sarma, O. Abe, T. Saino, N. Yoshida, Continuous shipboard sampling system for determination of triple oxygen isotopes and O_2/Ar ratio by dual-inlet mass spectrometry., **Rapid Communications in Mass Spectrometry**, **20**, 3503-3508, 2006.
79. Y. Ueno, K. Yamada, N. Yoshida, S. Maruyama, and Y. Isozaki, Biosignature and abiotic constraints on Early life, reply, **Nature**, **444**, E18-E19 (doi:10.1038/nature05500), 2006
78. M. B. Westley, H. Yamagishi, B. N. Popp, N. Yoshida, Nitrous oxide cycling in the Black Sea inferred from stable isotope and isotopomer distributions, **Deep Sea Research**, **53**, 1802-1816, 2006.
77. Ueno, Y., K. Yamada, N. Yoshida, S. Maruyama, and Y. Isozaki, Evidence from fluid inclusions for microbial methanogenesis in the early Archaean era, **Nature**, **440**, 516-519, 2006.
76. K. Yamada, Y. Ozaki, F. Nakagawa, S. Sudo, H. Tsuruta and N. Yoshida., Hydrogen and carbon isotopic measurements of methane from agricultural combustion: implications for isotopic signatures of global biomass burning sources., **J. Geophys. Res.**, **111**, D16306, doi:10.1029/2005JD006750, 2006.
75. K. Anzai, X. Gao, H. Sasada, and N. Yoshida, Narrow lamb-dip of the 3.4- μm band transition of methane with difference frequency generation and enhancement cavity, **Jpn. J. Appl. Phys.**, **45**(4A), 2771-2775, 2006.
74. H. Nara, F. Nakagawa and N. Yoshida, Development of two-dimensional gas chromatography/isotope ratio mass spectrometry for the stable carbon isotopic analysis of C_2 - C_5 non-methane hydrocarbons emitted from biomass burning, **Rapid Commun. Mass Spectrom.**, **20**, DOI: 10.1002/rcm.2302, 2006.
73. K. Tsuji, S. Fujikawa, K. Yamada, N. Yoshida, K. Yamamoto, T. Kikugawa, Precise Measurement of the $^{13}\text{CH}_4/^{12}\text{CH}_4$ Ratio of Diluted Methane Using a Near-Infrared Laser Absorption Spectrometer, **Sensors and Actuators B: Chemical**, **114**, 326-333, 2006.
72. H. Yamagishi, N. Yoshida, S. Toyoda, B. N. Popp, M. B. Westley, and S. Watanabe, Contributions of denitrification and mixing on the distribution of nitrous oxide in the North Pacific., **Geophys. Res. Lett.**, **32**, L04603, DOI 10.1029/2004GL021458, 2005.
71. S. Toyoda, H. Mutoke, H. Yamagishi, N. Yoshida, and Y. Tanji, Fractionation of N_2O isotopomers during production by denitrifier, **Soil Biology & Biochemistry**, **37**, 1535-1545, 2005
70. K. Yamada, N. Yoshida, F. Nakagawa, G. Inoue, Source evaluation of atmospheric methane over western Siberia using double stable isotopic signatures, **Organic Geochemistry**, **36**, 717-726, 2005
69. F. Nakagawa, U. Tsunogai, D. D. Komatsu, K. Yamada, N. Yoshida, J. Moriizumi, K. Nagamine, T. Iida, Y. Ikebe, Automobile exhaust as a source of ^{13}C - and D-enriched atmospheric methane in urban areas, **Organic Geochemistry**, **36**, 727-738, 2005
68. G. Xiaoming, H. Sasada, K. Anzai, N. Yoshida, Frequency-domain measurement of cavity ring-down spectroscopy, **Jpn. J. Applied Physics**, **44**, 1452-1456, 2005
67. R. Uemura, Y. Matsui, N. Yoshida, O. Abe, S. Mochizuki, Isotopic fractionation of water during snow formation: experimental evidence of kinetic effect, **Polar Meteorol. Glaciol.**, **19**, 1-14, 2005.
66. R. Well, H. Flessa, F. Jaradat, S. Toyoda, and N. Yoshida, Measurement of isotopomer signatures of N_2O in groundwater, **J. Geophys. Res. – Biogeosciences**, **110**, G02006, doi:10.1029/2005JG000044, 2005
65. K. I. Fujii, S. Goto, R. Uemura, K. Yamada, M. Sato, and N. Yoshida, Botanical and geographical origin identification of industrial ethanol by stable isotope analyses of C, H, and O, **Biosci. Biotechnol. Biochem.**, **69**, 2193-2199, 2005.
64. M. Ogawa and N. Yoshida, Intramolecular distribution of stable nitrogen and oxygen isotopes of nitrous oxide emitted during coal combustion, **Chemosphere**, **61**, 877-887, 2005.
63. M. Ogawa and N. Yoshida, Nitrous oxide emission from the burning of agricultural residue, **Atmospheric Environment**, **39**, 3421-3429, 2005
62. Kurita N., A. Sugimoto, Y. Fujii, T. Fukazawa, V. N. Makarov, O. Watanabe, K. Ichianagi, A. Numaguti, N. Yoshida, Isotopic composition and origin of snow over Siberia, **J. Geophys. Res.**, **110**, D13102, doi:10.1029/2004JD005053, 2005

61. M. Ogawa, N. Yoshida, Stable isotope fractionation of nitrous oxide during thermal decomposition and reduction processes, **J. Geophys. Res. – Atmospheres**, **109**, D19301, doi:10.1029/2004JD004652, 2004.
60. R. Uemura, N. Yoshida, N. Kurita, M. Nakawo, O. Watanabe, An observation-based method for reconstructing ocean surface changes using a 340,000-year deuterium excess record from the Dome Fuji ice core, Antarctica, **Geophys. Res. Lett.**, **31**, L13216, doi:10.1029/2004GL019954, 2004.
59. F. Nakagawa, U. Tsunogai, T. Gamo, N. Yoshida, Stable isotopic compositions and fractionations of carbon monoxide at coastal and open ocean stations in the Pacific, **J. Geophys. Res.**, **109**, C06016, doi:10.1029/2001JC001108, 2004.
58. N. Kurita, N. Yoshida, G. Inoue, E. A. Chayanova, Modern isotope climatology of Russia: A first assessment, **J. Geophys. Res.**, **109**, D03102, doi:10.1029/2003JD003404, 2004.
57. S. Toyoda, N. Yoshida, T. Urabe, Y. Nakayama, T. Suzuki, K. Tsuji, K. Shibuya, S. Aoki, T. Nakazawa, S. Ishidoya, K. Ishijima, S. Sugawara, T. Machida, G. Hashida, S. Morimoto, H. Honda, Temporal and latitudinal distributions of stratospheric N₂O isotopomers, **J. Geophys. Res.**, **109**, D08308, DOI 10.1029/2003JD004316, 2004.
56. H. L. Schmidt, R. A. Werner, N. Yoshida, R. Well, Is the isotopic composition of nitrous oxide an indicator for its origin from nitrification or denitrification? A theoretical approach from referred data and microbiological and enzyme kinetic aspects, **Rapid Commun. Mass Spectrom.**, **18**, 2036–2040, 2004.
55. Nakagawa, F., Komatsu, D. D., Tsunogai, U., Yoshida, N., Carbon isotopic composition of CH₄ and CO emitted during biomass burning experiments, **Geochimica Et Cosmochimica Acta**, **67**, A322, 2003.
54. Toyoda, S., Mutoke, H., Yamagishi, H., Yoshida, N., Fractionation of N₂O isotopomers during production by denitrifiers, **Geochimica Et Cosmochimica Acta**, **67**, A489, 2003.
53. Ogawa, M.; Yoshida, N., Isotopomer analysis of nitrous oxide emitted from burning of agricultural residue, **Geochimica Et Cosmochimica Acta**, **67**, A346, 2003.
52. Yoh, M., Akita, Y., Toyoda, S., Yoshida, N., Nitrogen stable isotope abundance of N₂O from composting of livestock waste: Its variation and mechanics, **Geochimica Et Cosmochimica Acta**, **67**, A565, 2003.
51. Yamada, K., Yoshida, N., Nakagawa, F., Stable carbon and hydrogen isotope ratios in atmospheric methane over Siberia, **Geochimica Et Cosmochimica Acta**, **67**, A546, 2003.
50. Sugiura, K., Narin, B., Yoshida, N., The biogeochemical influence of groundwater on the material cycle in Tama River tidal flat sediments, **Geochimica Et Cosmochimica Acta**, **67**, A452, 2003.
49. O. Watanabe, J. Jouzel, S. Johnsen, F. Parrenin, H. Shoji & N. Yoshida, Homogeneous climate variability across East Antarctica over the past three glacial cycles, **Nature**, **422**, 509-512, 2003.
48. O. Abe, N. Yoshida, Partial pressure dependency of ¹⁷O/¹⁶O and ¹⁸O/¹⁶O of molecular oxygen in the mass spectrometer, **Rapid Commun. Mass Spectrom.**, **17**, 395-400, 2003.
47. K. Uehara, K. Yamamoto, T. Kikugawa, S. Toyoda, K. Tsuji and N. Yoshida, Precise isotope abundance ratio measurement of nitrous oxide using diode lasers, **Sensors and Actuators B**, **90**, 250-255, 2003.
46. K. Yamada, Y. Ozaki, F. Nakagawa, M. Tanaka, N. Yoshida, An improved method for measurement of the hydrogen isotope ratio of atmospheric methane and its application to a Japanese urban atmosphere, **Atmospheric Environment**, **37**, 1975-1982, 2003.
45. K. Uehara, K. Yamamoto, T. Kikugawa, N. Yoshida, Site-selective nitrogen isotopic ratio measurement of nitrous oxide using 2 um diode lasers, **Spectrochimica Acta Part A**, **59**, 957-962, 2003.
44. R. Bol, S. Toyoda, S. Yamulki, J. M. B. Hawkins, L. M. Cardenas, & N. Yoshida, Dual isotope and isotopomer ratios of N₂O emitted from a temperate grassland soil after fertiliser application, **Rapid Commun. Mass Spectrom.**, **17**, 2550-2556, DOI 10.1002/rcm.1223, 2003.
43. O. Watanabe, K. Kamiyama, H. Motoyama, Y. Fujii, M. Igarashi, T. Furukawa, K. Goto-Azuma, T. Saito, S. Kanamori, N. Kanamori, N. Yoshida, R. Uemura, General tendencies of stable isotopes and major chemical constituents of the Dome Fuji deep ice core, **Mem. Natl. Inst. Polar Res. Spec. Issue**, **57**, 1-25, 2003.
42. N. Kurita, A. Numaguti, A. Sugimoto, K. Ichianagi, N. Yoshida, Relationship between the variation of isotopic ratios and the source of summer precipitation in eastern Siberia, **J. Geophys. Res.**, **108**, D11, 4339doi:10.1029/2001JD001359, 2003.
41. K. Yamamoto, N. Yoshida, High-precision isotopic ratio measurement system for methane (¹²CH₃D/¹²CH₄,

- $^{13}\text{CH}_4/^{12}\text{CH}_4$) by using near-infrared diode laser absorption spectroscopy, **Spectrochimica Acta, Part A**, **58**, 2699-2707, 2002.
40. T. Yoshioka, S. Ueda, T. Miyajima, E. Wada, N. Yoshida, A. Sugimoto, P. Vijarnsorn, and S. Boonprakub, Biogeochemical properties of a tropical swamp forest ecosystem in southern Thailand, **Limnology**, **3**, 51-59, 2002.
39. M. Morimoto, O. Abe, H. Kayanne, N. Kurita, E. Matsumoto and N. Yoshida, Salinity records for the 1997-98 El Nino from Western Pacific corals, **Geophys. Res. Lett.**, **29**, 11, 35-1-35-4, 2002.
38. T. Saito, U. Tsunogai, K. Kawamura, T. Nakatsuka, and N. Yoshida, Stable carbon isotopic compositions of light hydrocarbons over the western North Pacific and implication for their photochemical ages, **J. Geophys. Res.**, **107**, D4, 2-1-2-9, 2002.
37. K. Yamada, M. Tanaka, F. Nakagawa, and N. Yoshida, On-line measurement of intramolecular carbon isotope distribution of acetic acid by continuous-flow isotope ratio mass spectrometry, **Rapid Commun. Mass Spectrom.**, **16**, 1059-1064, 2002.
36. S. Toyoda, N. Yoshida, T. Miwa, Y. Matsui, H. Yamagishi, U. Tsunogai, Y. Nojiri, and N. Tsurushima, Production mechanism and global budget of N_2O inferred from its isotopomers in the western North Pacific, **Geophys. Res. Lett.**, **29**, 3, 10.1029/2001GL014311, 7-1-7-4, 2002.
35. F. Nakagawa, N. Yoshida, A. Sugimoto, E. Wada, T. Yoshioka, S. Ueda, and P. Vijarnsorn, Stable isotope and radiocarbon compositions of methane emitted from tropical rice paddies and swamps in Southern Thailand, **Biogeochemistry**, **61**, 1-19, 2002.
34. H. A. Takahashi, E. Konohira, T. Hiyama, M. Minami, T. Nakamura, N. Yoshida, Diurnal variation of CO_2 concentration, D^{14}C and $\delta^{13}\text{C}$ in an urban forest: Estimate of the anthropogenic and biogenic CO_2 contributions, **Tellus - Series B - Chemical and Physical Meteorology**, **54**, 2, 97-109, 2002.
33. U. Tsunogai, N. Yoshida, T. Gamo, Carbon isotopic evidence of methane oxidation through sulfate reduction in sediment beneath cold seep vents on the seafloor at Nankai Trough, **Marine Geology**, **187**, 1, 145-160, 2002.
32. T. Nakazawa, S. Aoki, K. Kawamura, T. Saeki, S. Sugawara, H. Honda, G. Hashida, S. Morimoto, N. Yoshida, S. Toyoda, Y. Makide, and T. Shirai, Variations of stratospheric trace gases measured using balloon-borne cryogenic sampler, **Advances in Space Research**, **30**, 5, 1349-1357, doi:10.1016/S0273-1177(02)00551-3, 2002.
31. B. N. Popp, M. B. Westley, S. Toyoda, T. Miwa, J. E. Dore, N. Yoshida, T. M. Rust, F. J. Sansone, M. E. Russ, N. E. Ostrom, P. H. Ostrom, Nitrogen and oxygen isotopomeric constraints on the origins and sea-to-air flux of N_2O in the oligotrophic subtropical North Pacific gyre, **Global Biogeochemical Cycles**, **16**, cit.#1064 DOI 10.1029/2001GB0018061, 12.1-12.10, 2002.
30. T. Sowers, A. Rodebaugh, N. Yoshida, S. Toyoda, Extending records of the isotopic composition of atmospheric N_2O back to 1800 A.D. from air trapped in snow at the South Pole and the Greenland Ice Sheet Project II ice core, **Global Biogeochemical Cycles**, **16**, cit.#1129, DOI 10.1029/2002GB001911, 76.1-76.10, 2002.
29. T. Shiraiwa, S. Kohshima, R. Uemura, N. Yoshida, S. Matoba, J. Uetake, M. A. Godoi, High net accumulation rates at Campo de Hielo Patagonico Sur, South America, revealed by analysis of a 45.97m long ice core, **Annals of Glaciology**, **35**, 84-90, 2002.
28. F. Nakagawa, N. Yoshida, Y. Nojiri, V. N. Makarov, Production of methane from allasses in eastern Siberia: Implications from its ^{14}C and stable isotopic compositions, **Global Biogeochemical Cycles**, **16**, 14.1-14.15, 2002.
27. H. A. Takahashi, T. Hiyama, E. Konohira, N. Yoshida, Balance and behavior of carbon dioxide at an urban forest inferred from the isotopic and meteorological approaches, **Radiocarbon** **43**, 659-669, 2001.
26. K. Uehara, K. Yamamoto, T. Kikugawa, N. Yoshida, Isotope analysis of environmental substances by a new laser-spectroscopic method utilizing different path lengths, **Sensors and Actuators B**, **74**, 173-178, 2001.
25. S. Toyoda, N. Yoshida, T. Urabe, S. Aoki, T. Nakazawa, S. Sugawara, and H. Honda, Fractionation of N_2O isotopomers in the stratosphere, **J. Geophys. Res.**, **106**, 7515-7522, 2001.
24. S. Yamulki, S. Toyoda, N. Yoshida, E. Veldkamp, B. Grant, and R. Bol, Diurnal fluxes and the isotopomer ratios of N_2O in a temperate grassland following urine amendment, **Rapid Commun. Mass Spectrom.**, **15**, 1263-1269, 2001.

23. N. Yoshida and S. Toyoda, Constraining the atmospheric N₂O budget from intramolecular site preference in N₂O isotopomers, **Nature**, **405**, 330-334, 2000.
22. U. Tsunogai, N. Yoshida, J. Ishibashi, and T. Gamo, Carbon isotopic distribution of methane in deep-sea hydrothermal plume, Myojin Knoll Caldera, Izu-Bonin arc: Implications for microbial methane oxidation in ocean and applications to heat flux estimation., **Geochim. Cosmochim. Acta**, **64**, 2439-2452, 2000.
21. U. Tsunogai, F. Nakagawa, Y. Hachisu, and N. Yoshida, Stable carbon and oxygen isotopic analysis of carbon monoxide in natural waters, **Rapid Commun. Mass Spectrom.**, **14**, 1507-1512, 2000.
20. S. Ueda, C. U. Go, T. Yoshioka, N. Yoshida, E. Wada, T. Miyajima, A. Sugimoto, N. Boontanon, P. Vijarnsorn, and S. Boonprakub, Dynamics of dissolved O₂, CO₂, CH₄, and N₂O in a tropical coastal swamp in southern Thailand., **Biogeochemistry**, **49**, 191-215, 2000.
19. U. Tsunogai, N. Yoshida, T. Gamo, Carbon isotopic compositions of C₂-C₅ hydrocarbons and methyl chloride in urban, coastal, and maritime atmospheres over the western North Pacific, **J. Geophys. Res.**, **104**, 16033-16039, 1999.
18. S. Toyoda, N. Yoshida, Determination of nitrogen isotopomers of nitrous oxide on a modified isotope ratio mass spectrometer, **Analytical Chemistry**, **71**, 4711-4718, 1999.
17. N. Takahata, Y. Nishio, N. Yoshida, Y. Sano, Precise isotopic measurements of nitrogen at the sub-nanomole level, **Analytical Sciences**, **14**, 485-491, 1998.
16. E. Wada, N. Yoshida, T. Yoshioka, M. Yoh, K. Kabaya, The abundance of ¹⁵N in N₂O in aquatic ecosystems with emphasis on denitrification, **Mitt. Internat. Verein. Limnol.**, **25**, 115-123, 1996.
15. C. Mizota, N. Yoshida, Oxygen isotopic constrains on the origin of nodular silica-apatite from the Hav Peres pyroclastics, Golan Heights, Israel, **Clays and Clay Minerals**, **42**, 572-575, 1994.
14. S. Tsunogai, M. Tsuzuki, S. Watanabe, N. Yoshida, Radiocarbon anomaly found in aquicultural scallops suspended in coastal sea, **J. Oceanogr.**, **49**, 31-37, 1993.
13. C. Mizota, Y. Domon, N. Yoshida, Oxygen isotope composition of natural phosphates from volcanic ash soils in the Great Rift Valley of Africa and East Java, Indonesia, **Geoderma**, **53**, 111-123, 1992.
12. N. Yoshida, T. Yamazaki, Potential of soil and sediment for the reduction of N₂O, **Soil Phys. Cond. Plant Growth, Jpn.**, **65**, 21-28, 1992.
11. N. Yoshida, N. Miyazaki, Oxygen isotope correlation of cetacean bone phosphate with environmental water, **J. Geophys. Res.**, **96**, 815-820, 1991.
10. N. Yoshida, T. Yoneguchi, M. Kitano, Determination of stable isotope ratios of atmospheric water vapor and carbon dioxide, **Mass Spectroscopy**, **39**, 251-259, 1991.
9. K. K. Ham, P. J. Kyung, Y. J. Mann, N. Yoshida, Petrogenesis of the carbonate and serpentinite rocks from the Ulsam iron mine, **J. Geol. Soc. Korea**, **26**, 407-417, 1990.
8. N. Yoshida, H. Morimoto, M. Hirano, I. Koike, S. Matsuo, E. Wada, T. Saino, and A. Hattori, Nitrification rates and ¹⁵N abundances of N₂O and NO₃ in the western North Pacific, **Nature**, **342**, 895-897, 1989.
7. N. Yoshida, ¹⁵N depleted N₂O as a product of nitrification, **Nature**, **335**, 528-529, 1988.
6. T. Yamazaki, N. Yoshida, E. Wada, S. Matsuo, N₂O Reduction by *Azotobacter vinelandii* with emphasis on kinetic nitrogen isotope effects, **Plant and Cell Physiology**, **28**, 263-271, 1987.
5. N. Yoshida, Y. Mizutani, A simple procedure for oxygen-18 determination of water samples, **Geochemistry**, **21**, 83-90, 1987. (in Japanese)

4. M. Noto, N. Yoshida, Y. Mizutani, T. Tomita, Hydrogen and carbon isotopic compositions of carbonaceous materials in shale from Kasuga area, Gifu, Japan, **Geochemistry**, **20**, 51-58, 1986. (in Japanese)
3. N. Yoshida, Y. Mizutani, Preparation of carbon dioxide for oxygen-18 determination of water by use of a plastic syringe, **Analytical Chemistry**, **58**, 1273-1275, 1986.
2. N. Yoshida, A. Hattori, T. Saino, S. Matsuo, and E. Wada, $^{15}\text{N}/^{14}\text{N}$ ratio of dissolved N_2O in the eastern tropical Pacific Ocean, **Nature**, **307**, 442-444, 1984.
1. N. Yoshida, S. Matsuo, Nitrogen isotope ratio of atmospheric N_2O as a key to the global cycle of N_2O , **Geochemical Journal**, **17**, 231-239, 1983.