

## 教授昇任に係る教員選考調書

|                                |                                                                     |               |    |
|--------------------------------|---------------------------------------------------------------------|---------------|----|
| ふりがな                           | やまじ かずよ                                                             |               |    |
| 氏 名                            | 山地 一代                                                               |               |    |
| 昇任時年齢                          |                                                                     |               |    |
| 現 職 名                          | 准教授                                                                 |               |    |
| 所 属                            | 海洋安全システム科学講座<br>海洋・気象学                                              |               |    |
| 最終卒業・修了<br>学校、学部等<br>(卒・修了等年月) | 岡山大学大学院農学研究科修士課程生物資源学専攻                                             |               |    |
|                                | (1998年3月修了)                                                         |               |    |
| 学 位                            | 修士（農学）（岡山大学）                                                        |               |    |
|                                | 博士（理学）（九州大学）                                                        |               |    |
| 業績                             | 論文数                                                                 | 教員選考委員会審査結果数  |    |
|                                |                                                                     | 論文数（有審査）      | 66 |
|                                |                                                                     | （うち第一著者）      | 13 |
|                                |                                                                     | （うち英文による第一著者） | 11 |
|                                | その他                                                                 |               |    |
| 審査分野                           | 理工学                                                                 |               |    |
| 備 考<br>(教員歴：助教以上<br>現大学院担当)    | 教員歴 1 2 年（講師 1 年、准教授 1 1 年）<br>前期課程研究指導担当（Mマル合）<br>後期課程研究指導担当（Dマル合） |               |    |

教員個人調書（理工学・商船学（研究）分野）

2024 年 8 月 17 日

|           |                              |                                                                             |
|-----------|------------------------------|-----------------------------------------------------------------------------|
| 氏 名（ふりがな） | 山地 一代（やまじ かずよ）               | 3cm×4cm 程度の<br>写真(正面脱帽)を貼<br>付けてください。<br><br>(昇任・大学院担当資<br>格審査の場合は写真<br>不要) |
| 生年月日      |                              |                                                                             |
| 現 住 所     |                              |                                                                             |
| 電話番号      | (携帯電話等、日中の連絡可能な電話番号を記載願います。) |                                                                             |
| E-mail    |                              |                                                                             |

(学 歴)

| 入学・卒業（修了・取得）年月 | 学部・学科及び専攻名（学位・免状）    |
|----------------|----------------------|
| 1992 年 4 月     | 香川大学教育学部中学校教員養成課程 入学 |
| 1996 年 3 月     | 同上 卒業 学士（教育学）        |
| 1996 年 4 月     | 岡山大学大学院農学研究科修士課程 入学  |
| 1998 年 3 月     | 同上 修了 修士（農学）         |
| 2006 年 3 月     | 博士（理学）（九州大学）         |

(職 歴)

| 異 動 年 月     | 所属，職名，職務内容，担当科目等                                                                                      |
|-------------|-------------------------------------------------------------------------------------------------------|
| 1998 年 4 月  | 通商産業省工業技術院四国工業技術研究所海洋資源部分離工学研究室，工業技術院特別技術補助職員（～2000 年 9 月 30 日）                                       |
| 2000 年 10 月 | 地球環境フロンティア研究センター(認可法人海洋科学技術センター)，研究推進スタッフ(～2006 年 3 月 31 日)                                           |
| 2006 年 4 月  | 地球環境フロンティア研究センター(独立行政法人海洋研究開発機構)，ポストドクトラル研究員（～2009 年 3 月 31 日）                                        |
| 2009 年 4 月  | 独立行政法人海洋研究開発機構，地球環境変動領域，研究員（～2013 年 3 月 31 日）                                                         |
| 2013 年 4 月  | 国立大学法人神戸大学大学院海事科学研究科，講師（～2014 年 3 月 31 日）<br>独立行政法人（※）海洋研究開発機構，客員研究員（～現在）<br>（※2015 年 4 月より，国立研究開発法人） |
| 2014 年 4 月  | 大学院海事科学研究科，准教授／海事科学部，准教授<br>大学院海事科学研究科，主配置／海事科学部 配置                                                   |

## 業 績

## (1) 発明・特許取得

なし

## (2) 著書

1. 山地一代, 大気環境の事典, 項目執筆/東アジアの広域大気汚染: モデル的視点から, 大気環境学会編, 朝倉書店, 2019 年 9 月, 事典, ISBN: 978-4-254-18054-1 C3540
2. 山地一代, 図説地球環境の事典(吉崎ら編), 項目執筆/エミッション・インベントリ, 朝倉書店, 2013 年 9 月, 事典, ISBN-13: 978-4254160598

(3) 学術論文 (有審査論文: ジャーナル, 単著, 第一著者又は第一著者に準ずる場合は○, Web of Science に収録されている論文には\*を付す. 国際共著論文の場合は, 末尾に「(国際共著)」と記す. Total Citations は, Web of Science もしくは, google scholar と Scopus より)

1. \*○ (指導学生主筆) Yahara, K, Yamaji, K, Taketani, F, Takigawa, M, Kanaya, Y, Ohata, S, Kondo, Y, Koike, M: Controlling factors of spatiotemporal variations in black carbon concentrations over the Arctic region by using a WRF/CMAQ simulation on the Northern Hemisphere scale. *Polar Science* 41, September 2024, DOI: 10.1016/j.polar.2024.101093.
2. Horie, Y, Mitsunaga, K, Yamaji, K, Hirokawa, S, Uaciquete, D, Ríos, JM, Yap, CK, Okamura, H: Variability in microplastic color preference and intake among selected marine and freshwater fish and crustaceans, *Discover Oceans* 1(5), March 2024, DOI:10.1007/s44289-024-00005-w(国際共著).  
特記事項: Total Citations, 6 (by google scholar)
3. \*Singh, T, Matsumi, Y, Nakayama, T, Hayashida S, Patra, PK, Yasutomi, N, Kajino, M, Yamaji, K, Khatri, P, Takigawa, M, Araki, H, Kurogi, Y, Kuji, M, Muramatsu, K, Imasu, R, Ananda, A, Arbain, AA, Khaiwal, R, Bhardwaj, S, Kumar, S, Mor, S, Dhaka, SK, Dimri, AP, Sharma, S, Singh, N, Bhatti, MS, Yadav, R, Vatta, K, Mor, S: Very high particulate pollution over northwest India captured by a high-density in situ sensor network. *Sci Rep* 13(1), August 2023, DOI: 10.1038/s41598-023-39471-1(国際共著).
4. \*○ (指導学生主筆) Tauchi, M, Yamaji, K, Nakatsubo, R, Oshita, Y, Kawamoto, K, Itano, Y, Hayashi, M, Hiraki, T, Takaishi, Y, Futamura, A: Evaluation of the effect of Global Sulfur Cap 2020 on a Japanese inland sea area. *Case Studies on Transport Policy* 10(2), 785-794, June 2022, DOI:10.1016/j.cstp.2022.02.006.  
特記事項: Total Citations, 7(2.33 yr<sup>-1</sup>)
5. \*Kanaya, Y, Yamaji, K, Miyakawa, T, Taketani, F, Zhu, C, Choi, Y, Ikeda, K, Tanimoto, H, Yamada, D, Narita, D, Kondo, Y, Klimont, Z: Dominance of the residential sector in Chinese black carbon emissions as identified from downwind atmospheric observations during the COVID-19 pandemic. *Sci Rep* 11(1), December 2021, DOI:10.1038/s41598-021-02518-2(国際共著).  
特記事項: Total Citations, 5(1.25 yr<sup>-1</sup>)
6. \*Itahashi, S, Uchida, R, Yamaji, K, Chatani, S: Year-round modeling of sulfate aerosol over Asia through updates of aqueous-phase oxidation and gas-phase reactions with stabilized Criegee intermediates. *Atmos Environ* 12, 100123, December 2021, DOI:10.1016/j.aeaoa.2021.100123.  
特記事項: Total Citations, 7(1.75 yr<sup>-1</sup>)
7. \*Misra, P, Takigawa, M, Khatri, P, Dhaka, SK, Dimri, AP, Yamaji, K, Kajino, M, Takeuchi, W, Imasu, R, Nitta, K, Patra, PK, Hayashida, S: Nitrogen oxides concentration and emission

- change detection during COVID-19 restrictions in North India. *Sci Rep* 11(1), July 2021, DOI:10.1038/s41598-021-87673-2(国際共著).
- 特記事項: Total Citations, 29(7.25 yr<sup>-1</sup>), Top10%(Multidisciplinary Sciences)
8. \*Itahashi, S, Ge, B, Sato, K, Wang, Z, Kurokawa, J, Tan, J, Huang, K, Fu, JS, Wang, X, Yamaji, K, Nagashima, T, Li, J, Kajino, M, Carmichael, GR, Wang, Z: Insights into seasonal variation of wet deposition over southeast Asia via precipitation adjustment from the findings of MICS-Asia III. *Atmos Chem Phys* 21, 8709–8734, June 2021, 10.5194/acp-21-8709-2021(国際共著).

特記事項: Total Citations, 7(1.75 yr<sup>-1</sup>)

  9. \*Chatani, S, Itahashi, S, Yamaji, K: Advantages of Continuous Monitoring of Hourly PM<sub>2.5</sub> Component Concentrations in Japan for Model Validation and Source Sensitivity. *Asian J Atmos Environ* 15(2), June 2021, DOI:10.5572/ajae.2021.008.

特記事項: Total Citations, 4(1 yr<sup>-1</sup>)

  10. ○(指導学生主筆)川本雄大, 田内萌絵, 山地一代, 中坪良平, 板野泰之, 山本勝彦, 和田匡司, 林美鶴, 大阪湾・播磨灘および周辺沿岸地域における大気汚染物質の高濃度化要因, 大気環境学会誌, 56(2), 35-42, DOI:10.11298/taiki.56.35, 2021.
  11. 金谷有剛, 山地一代, 長崎県・福江島での 10 年間の観測から評価した中国からのブラックカーボン排出量と減少トレンド, エアロゾル研究, 36(2),104-109, DOI:10.11203/jar.36.104, 2021
  12. 竹谷文一, 相田真希, 関谷高志, 山地一代, 池田恒平, 松本和彦, 本多牧生, 金谷有剛, 大気窒素化合物の日本海への沈着が表層クロロフィル a 濃度に及ぼす影響, エアロゾル研究, 36(1), 46-54, DOI:10.11203/jar.36.46, 2021
  13. \*Ge, B, Itahashi, S, Sato, K, Xu, D, Wang, J, Fan, F, Tan, Q, Fu, JS, Wang, X, Yamaji, K, Nagashima, T, Li, J, Kajino, M, Liao, H, Zhang, M, Wang, Z, Li, M, Woo, J-H, Kurokawa, J-I, Pan, Y, Wu, Q, Liu, X, Wang, Z: MICS-Asia III: Multi-model comparison of reactive Nitrogen deposition over China. *Atmos Chem Phys* 20, 10587–10610, September 2020, DOI:10.5194/acp-20-10587-2020(国際共著).

特記事項: Total Citations, 24(4.8 yr<sup>-1</sup>)

  14. \*Chatani, S, Shimadera, H, Itahashi, S, Yamaji, K: Comprehensive analyses of source sensitivities and apportionments of PM<sub>2.5</sub> and ozone over Japan via multiple numerical techniques. *Atmos Chem Phys* 20, 10311–10329, September 2020, DOI:10.5194/acp-20-10311-2020(国際共著).

特記事項: Total Citations, 41(8.2 yr<sup>-1</sup>), Top10%(Environmental Sciences, Meteorology & Atmospheric Sciences)

  15. \*Dhaka, SK, Chetna, VK, Panwar, V, Dimri, AP, Singh, N, Patra, PK, Matsumi, Y, Takigawa, M, Nakayama, T, Yamaji, K, Kajino, M, Misra, M., Hayashida, S: PM<sub>2.5</sub> diminution and haze events over Delhi during the COVID-19 lockdown period: an interplay between the baseline pollution and meteorology. *Sci Rep* 10(1), 13442, August 2020, DOI:10.1038/s41598-020-70179-8(国際共著).

特記事項: Total Citations, 76(15.2 yr<sup>-1</sup>), Top10%(Multidisciplinary Sciences)

  16. \*Tan, J, Fu, JS, Carmichael, GR, Itahashi, S, Tao, Z, Huang, K, Dong, X, Yamaji, K, Nagashima, T, Wang, X, Liu, Y, Lee, H-J, Lin, C-Y, Ge, B, Kajino, M, Zhu, J, Zhang, M, Liao, H, Wang, Z: Why do models perform differently on particulate matter over East Asia? A multi-model intercomparison study for MICS-Asia III. *Atmos Chem Phys* 20, 7393–7410, June 2020, DOI:10.5194/acp-20-7393-2020(国際共著).

特記事項: Total Citations, 18(3.6 yr<sup>-1</sup>)

  17. \*Kanaya, Y, Yamaji, K, Miyakawa, T, Taketani, F, Zhu, C, Choi, Y, Komazaki, Y, Ikeda, K, Kondo, Y, Klimont, Z: Rapid reduction in black carbon emissions from China: evidence from 2009–2019 observations on Fukue Island, Japan, *Atmos Chem Phys* 20, 6339–6356, June 2020, DOI:10.5194/acp-20-6339-2020(国際共著).

特記事項: Total Citations, 36(7.6 yr<sup>-1</sup>), Top10%(Environmental Sciences, Meteorology & Atmospheric Sciences)

  18. \*Itahashi, S, Yamaji, K, Chatani, S, Kitayama, K, Morino, Y, Nagashima, T, Saito, M, Takigawa, M, Morikawa, T, Kanda, I, Miya, Y, Komatsu, H, Sakurai, T, Shimadera, H, Uranishi, K, Fujiwara, Y, Hashimoto, T, Hayami, H: Model Performance Differences in Fine-

- Mode Nitrate Aerosol during Wintertime over Japan in the J-STREAM Model Inter-Comparison Study, *Atmosphere* 11(5), May 2020, DOI:10.3390/atmos11050511.  
特記事項: Total Citations, 5(1 yr<sup>-1</sup>)
19. \*Takigawa, M, Patra, PK, Matsumi, Y, Dhaka, SK, Nakayama, T, Yamaji, K, Kajino, M, Hayashida, S: Can Delhi's pollution be affected by crop fires in the Punjab region? SOLA 16, 86–91, April 2020, DOI:10.2151/sola.2020-015(国際共著).  
特記事項: Total Citations, 15(3 yr<sup>-1</sup>)
  20. \*Itahashi, S, Ge, B, Sato, K, Fu, JS, Wang, X, Yamaji, K, Nagashima, T, Li, J, Kajino, M, Liao, H, Zhang, M, Wang, Z, Li, M, Kurokawa, J-I, Carmichael, GR, Wang, Z: MICS-Asia III: overview of model intercomparison and evaluation of acid deposition over Asia, *Atmos Chem Phys* 20, 2667–2693, March 2020, DOI:10.5194/acp-20-2667-2020(国際共著).  
特記事項: Total Citations, 44(8.8 yr<sup>-1</sup>), Top10%(Environmental Sciences, Meteorology & Atmospheric Sciences)
  21. \*Yamaji, K, Chatani, S, Itahashi, S, Saito, M, Takigawa, M, Morikawa, T, Kanda, I, Miya, Y, Komatsu, H, Sakurai, T, Kitayama, K, Morino, Y, Nagashima, T, Shimadera, H, Uranishi, K, Fujiwara, Y, Hashimoto, T, Sudo, K, Misaki, T, Hayami, H: Model Inter-Comparison for PM<sub>2.5</sub> Components over urban Areas in Japan in the J-STREAM Framework, *Atmosphere* 11 (3), 222, February 2020, DOI:10.3390/atmos11030222.  
特記事項: Total Citations, 12(2.4 yr<sup>-1</sup>)
  22. \*Chatani, S, Yamaji, K, Itahashi, S, Saito, M, Takigawa, M, Morikawa, T, Kanda, I, Miya, Y, Komatsu, H, Sakurai, T, Morino, Y, Nagashima, T, Kitayama, K, Shimadera, H, Uranishi, K, Fujiwara, Y, Shintani, S, Hayami, H: Identifying key factors influencing model performance on ground-level ozone over urban areas in Japan through model inter-comparisons. *Atmos Environ* 223, February 2020, DOI:10.1016/j.atmosenv.2019.117255.  
特記事項: Total Citations, 13(2.6 yr<sup>-1</sup>)
  23. \*Kong, L, Tang, X, Zhu, J, Wang, Z, Fu, JS, Wang, X, Itahashi, S, Yamaji, K, Nagashima, T, Lee, HJ, Kim, CH, Lin, CY, Chen, L, Zhang, M, Tao, Z, Li, J, Kajino, M, Liao, H, Wang, Z, Sudo, K, Wang, Y, Pan, Y, Tang, G, Li, M, Wu, Q, Ge, B, Carmichael, GR: Evaluation and uncertainty investigation of the NO<sub>2</sub>, CO and NH<sub>3</sub> modeling over China under the framework of MICS-Asia III *Atmos Chem Phys* 20, 181–202, January 2020, DOI:10.5194/acp-20-181-2020(国際共著).  
特記事項: Total Citations, 42(8.4 yr<sup>-1</sup>), Top10%(Environmental Sciences, Meteorology & Atmospheric Sciences)
  24. \*Li, J, Nagashima, T, Kong, L, Ge, B, Yamaji, K, Fu, JS, Wang, X, Fan, Q, Itahashi, S, Lee, HJ, Kim, CH, Lin, CY, Zhang, M, Tao, Z, Kajino, M, Liao, H, Li, M, Woo, J-H, Kurokawa, J-I, Wu, Q, Akimoto, H, Carmichael, GR, Wang, Z: Model evaluation and intercomparison of surface-level ozone and relevant species in East Asia in the context of MICS-Asia Phase III - Part 1: Overview. *Atmos Chem Phys* 19, 12993–13015, October 2019, DOI:10.5194/acp-19-12993-2019(国際共著).  
特記事項: Total Citations, 48(8 yr<sup>-1</sup>), Top10%(Environmental Sciences, Meteorology & Atmospheric Sciences)
  25. \*Chen, L, Gao, Y, Zhang, M, Fu, JS, Zhu, J, Liao, H, Li, J, Huang, K, Ge, B, Wang, X, Lam, YF, Lin, CY, Itahashi, S, Nagashima, T, Kajino, M, Yamaji, K, Wang, Z, Kurokawa, J-I: MICS-Asia III: Multi-model comparison and evaluation of aerosol over East Asia, *Atmos Chem Phys* 19, 12993–13015, October 2019, DOI:10.5194/acp-19-11911-2019(国際共著).  
特記事項: Total Citations, 54(9 yr<sup>-1</sup>), Top10%(Environmental Sciences, Meteorology & Atmospheric Sciences)
  26. \*Itahashi, S, Yamaji, K, Chatani, S, Hayami, H: Differences in Model Performance and Source Sensitivities for Sulfate Aerosol Resulting from Updates of the Aqueous- and Gas-Phase Oxidation Pathways for a Winter Pollution Episode in Tokyo, Japan, *Atmosphere* 10 (9), 544, September 2019, DOI:10.3390/atmos10090544.  
特記事項: Total Citations, 7(1.17 yr<sup>-1</sup>)
  27. \*Kitayama, K, Morino, Y, Yamaji, K, Chatani, S: Uncertainties in O<sub>3</sub> concentrations simulated by CMAQ over Japan using four chemical mechanisms. *Atmos Environ* 198, 448–462, February 2019, DOI:10.1016/j.atmosenv.2018.11.003.

- 特記事項: Total Citations, 27(4.5 yr<sup>-1</sup>)
28. 茶谷聡, CHEEWAPHONGPHAN Penwadee, 小林伸治, 田邊潔, 山地一代, 高見昭憲, 日本国内大規模固定発生源の業種別・施設種別・燃料種別 大気汚染物質排出インベントリの構築, 大気環境学会誌, 54(2), 62-74, DOI:10.11298/taiki.54.62, 2019.
  29. \* Itahashi, S, Yamaji, K, Chatani, S, Hisatsune, K, Saito, S, Hayami, H: Model Performance Differences in Sulfate Aerosol in Winter over Japan Based on Regional Chemical Transport Models of CMAQ and CAMx. *Atmosphere* 9(12), December 2018, DOI:10.3390/atmos9120488.  
特記事項: Total Citations, 7(1 yr<sup>-1</sup>)
  30. Chatani, S, Yamaji, K, Sakurai, T, Hayami, H: Establishing a Reference Modeling for Source Apportionment and Effective Strategy-Making for Suppressing Secondary Air Pollutants, *Global Environmental Research* 22(1,2) (ISSN:2432-7484), 21-30, September 2018.
  31. \* Shimadera, H, Hayami, H, Chatani, S, Morikawa, T, Morino, Y, Mori, Y, Yamaji, K, Nakatsuka, S, and Ohara, T: Urban Air Quality Model Inter-Comparison Study (UMICS) for Improvement of PM<sub>2.5</sub> Simulation in Greater Tokyo Area of Japan. *Asian J Atmos Environ* 12(2), 139–152, June 2018, DOI:10.5572/ajae.2018.12.2.139.  
特記事項: Total Citations, 12(3.09 yr<sup>-1</sup>)
  32. \* Taketani, F, Noguchi-Aita, M, Yamaji, K, Sekiya, T, Ikeda, K, Hashioka, T, Honda, MC, Matsumoto, K, Kanaya, Y.: Seasonal Response of North Western Pacific Marine Ecosystems to Deposition of Atmospheric Inorganic Nitrogen Compounds from East Asia. *Sci Rep* 8, June 2018, 10.1038/s41598-018.27523-w.  
特記事項: Total Citations, 15(2.14 yr<sup>-1</sup>)
  33. \* Chatani, S, Okumura, M, Shimadera, H, Yamaji, K: Effects of a Detailed Vegetation Database on Simulated Meteorological Fields, Biogenic VOC Emissions, and Ambient Pollutant Concentrations over Japan. *Atmosphere* 9(5), 1–17, May 2018, DOI:10.3390/atmos9050179.  
特記事項: Total Citations, 9(1.29 yr<sup>-1</sup>)
  34. \* Itahashi, S, Yamaji, K, Chatani, S, Hayami, H: Refinement of Modeled Aqueous-Phase Sulfate Production via the Fe- and Mn-Catalyzed Oxidation Pathway. *Atmosphere* 9(4), 1–17, April 2018, DOI:10.3390/atmos9040132.  
特記事項: Total Citations, 23(3.29 yr<sup>-1</sup>)
  35. \* Chatani, S, Yamaji, K, Sakurai, T, Itahashi, S, Shimadera, H, Kitayama, K, Hayami, H: Overview of Model Inter-Comparison in Japan's Study for Reference Air Quality Modeling(J-STREAM), *Atmosphere* 9(1), 1–14, January 2018, DOI:10.3390/atmos9010019.  
特記事項: Total Citations, 25(3.57 yr<sup>-1</sup>)
  36. \* Kanaya, Y, Matsui, H, Taketani, F, Pan, X, Komazaki, Y, Wang, Z, Chang, L, Kang, D, Choi, M, Kim, S-Y, Kang, C-H, Takami, A, Tanimoto, K, Ikeda, K, Yamaji, K: Observed and Modeled Mass Concentrations of Organic Aerosols and PM<sub>2.5</sub> at Three Remote Sites around the East China Sea, Roles of Chemical Aging. *Aerosol Air Qual Res* 17(12), December 2017, 3091–3105, DOI:10.4209/aaqr.2016.12.0573(国際共著).  
特記事項: Total Citations, 5(0.63 yr<sup>-1</sup>)
  37. \* Ikeda, K, Yamaji, K, Kanaya, Y, Takegani, F, Pan, X, Komazaki, Y, Kurokawa, J-I., Ohara, T: Source region attribution of PM<sub>2.5</sub> mass concentrations over Japan. *Geochim J* 49(2), 185–194, May 2015, DOI:10.2343/geochemj.2.0344.  
特記事項: Total Citations, 26(2.6 yr<sup>-1</sup>)
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特記事項: Total Citations, 5(0.5 yr<sup>-1</sup>)
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