

岡山大学 大学院教育学研究科 理科教育講座  
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専門分野  
理科教育学



### 最近の研究テーマ

1. DESD (持続可能な開発のための教育の10年)の成果に基づいた理科の教師教育プログラムのアジア・スタンダードの提案
2. 子どもの学力形成を保障する自然体験学習の授業モデルの開発

### 最近の主な研究業績

著書

1. Hiroki Fujii and Haruo Ogawa (2016). Innovative Lesson Plans in Chemistry Education for Broadening Sustainable Society. In Mei-Hung Chiu (eds.), *Science education research and practice in Asia: Challenges and opportunities*, Springer. (in press)
2. Takuya Kamon and Hiroki Fujii (2015). Practice and Effect of Lessons on Inquiry Activities in Senior High School Chemistry. Focusing on Students' Attitudes toward Chemistry. In Myint Swe Khine (eds.), *Science Education in East Asia: Pedagogical Innovations and Research-informed Practices*, Springer, 355-371.
3. 宮野純次・藤井浩樹 (2015). ドイツの理科教育 - その伝統と革新 -, 風間書房.
4. 藤井浩樹・川田力監修, 広島県福山市立駅家西小学校編著 (2012). 未来をひらく ESD の授業づくり - 小学生のためのカリキュラムをつくる -, ミネルヴァ書房.

論文

1. Haruo Ogawa, Hiroki Fujii, and Akira Ikuo (2016). A Trial and evaluation of experimental kit of handy body-warmer through a model lesson on the rusting of iron, *Journal of Science Education*, 17(1), 28-32.
2. Tomoko Matsumoto and Hiroki Fujii (2015). Changes in Senegalese Teacher Trainers' Views of Science Lessons through the Intervention Program in Japan, *International Journal of Curriculum Development and Practice*, 17(1), 75-87.
3. 小川治雄・生尾光・藤井浩樹 (2014). 化学現象のモデル化を取り入れた教員研修プログラムの開発 - 溶解現象についての理解をめざして -, 日本教科教育学会誌, 37(1), 75-83.
4. 小倉恭彦・藤井浩樹 (2013). 生徒の化学変化についての理解を促すための指導法の考案 - 中学校2年「物質の分解と原子・分子」の内容において -, 理科教育学研究, 54(1), 105-115.
5. 藤井浩樹・河島享子 (2012). 共生についての理解を図るための環境教育の実践研究 - 小学校第3学年「カプトムシのすめる森づくり」の授業を通して -, 日本教科教育学会誌, 35(3), 45-53.

### 学生や高校生の皆さんへ

研究室では、小・中学校理科、高等学校化学の教材研究や学習指導の研究、そして授業研究の基礎を学ぶことができます。

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### Recent Research Projects

1. Proposition of Asian Standards of Science Teacher Education Programs: Based on Success of Decade of Education for Sustainable Development
2. Development of Lessons on Learning through Experiencing Nature: Focus on Promoting Students' Academic Achievement

### Recent Publications

#### Books

- 1 . Hiroki Fujii and Haruo Ogawa (2016). Innovative Lesson Plans in Chemistry Education for Broadening Sustainable Society. In Mei-Hung Chiu (eds.), *Science education research and practice in Asia: Challenges and opportunities*, Springer. (in press)
- 2 . Takuya Kamon and Hiroki Fujii (2015). Practice and Effect of Lessons on Inquiry Activities in Senior High School Chemistry: Focusing on Students' Attitudes toward Chemistry. In Myint Swe Khine (eds.), *Science Education in East Asia: Pedagogical Innovations and Research-informed Practices*, Springer, 355-371.
- 3 .Miyano, J. and Fujii, H. (2015). *Science Education in Germany: Tradition and Innovation*, Kazama Shobo. (in Japanese)
- 4 . Fujii, H. and Kawada, T. (editorial supervision) Ekiyanishi elementary school (eds.)(2012). *Innovative Lesson Plans for ESD to Broaden New Horizons*, Minerva Shobo. (in Japanese)

#### Articles

- 1 . Haruo Ogawa, Hiroki Fujii, and Akira Ikuo (2016). A Trial and evaluation of experimental kit of handy body-warmer through a model lesson on the rusting of iron, *Journal of Science Education*, 17(1), 28-32.
- 2 . Tomoko Matsumoto and Hiroki Fujii (2015). Changes in Senegalese Teacher Trainers' Views of Science Lessons through the Intervention Program in Japan, *International Journal of Curriculum Development and Practice*, 17(1),75-87.
- 3 . Ogawa, H., Ikuo, A., and Fujii, H. (2014). Development of In-service Teacher Training Program on Modeling of Chemical Phenomenon: Focus in Promoting Teachers' understanding of *Dissolution*, *The Bulletin of Japanese Curriculum Research and Development*, 37(1), 75-83. (in Japanese)
- 4 . Ogura, Y. and Fujii, H. (2013). Teaching Method for Promoting Students' Understanding of Chemical Change: Content Focusing on "Decomposition of Matter and Atom/Molecule" in Lower Secondary School, *Journal of Research in Science Education*, 54(1), 105-115. (in Japanese)
- 5 . Fujii, H. and Kawashima, K. (2012). Practical Research of Environmental Education for Promoting Pupils' Understanding of *Symbiosis*. Elementary School Lessons focused on "Making a Wood for Japanese Rhinoceros Beetle", *The Bulletin of Japanese Curriculum Research and Development*, 35(3), 45-53. (in Japanese)