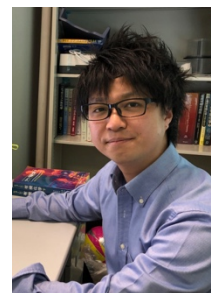


Curriculum Vitae

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EDUCATION

April, 2012 – September, 2014	Doctor Degree Graduate School of Life Sciences, Ritsumeikan University
April, 2010 – March, 2012	Master Degree Graduate School of Science and Engineering, Ritsumeikan University
April, 2006 – March, 2010	Bachelor Degree Department of Applied Chemistry, College of Science and Engineering, Ritsumeikan University

ACADEMIC CAREER

January, 2021 – Present	Specially Appointed Assistant Professor, Advanced Materials Chemistry Lab. (Prof. Yasuchika Hasegawa), Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Hokkaido University
April, 2019 – December, 2020	Postdoctoral Fellow, Advanced Materials Chemistry Lab. (Prof. Yasuchika Hasegawa), Division of Applied Chemistry, Faculty of Engineering, Hokkaido University
January, 2018 – March, 2018	Visiting Researcher, Organic Materials and Nanosystems Chemistry (Prof. Frank Würthner), Institut für Organische Chemie, Universität Würzburg
April, 2016 – March, 2019	Postdoctoral Fellow Bioorganic Chemistry Lab. (Prof. Hitoshi Tamiaki), Research Organization of Science and Technology, Ritsumeikan University
October, 2014 – March, 2016	JSPS Research Fellowship for Young Scientist (PD), Bioorganic Chemistry Lab. (Prof. Hitoshi Tamiaki), Ritsumeikan University
April, 2014 – September, 2014	JSPS Research Fellowship for Young Scientist (DC2), Bioorganic Chemistry Lab. (Prof. Hitoshi Tamiaki), Ritsumeikan University

PUBLICATIONS

1. D. Funakoshi, Y. Nomura, **S. Shoji**, H. Tamiaki, "Zinc 7,8-dihydroxylated chlorophyll-a derivatives as a synthetic model of natural bacteriochlorophyll-a," *Chem. Lett.*, **49**, 1403–1405 (2020).
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2. Y. Hasegawa, T. Sawanobori, Y. Kitagawa, **S. Shoji**, K. Fushimi, Y. Nakasaka, T. Masuda, I. Hisaki, "An Europium (III) luminophore with pressure-sensing units: Effective back energy transfer in coordination polymers with hexadentate porous stable networks," *ChemPlusChem*, **85**, 1989–1993 (2020).
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3. **S. Shoji**, Y. Nomura, H. Tamiaki, "Covalent heterodyads of synthetic chlorophyll derivatives linked with linear rigid substituents at the 20-positions constructing photoexcited energy transfer systems," *Tetrahedron*, **76**, 131130 (2020).
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4. D. Funakoshi, Y. Nomura, **S. Shoji**, H. Tamiaki, "Synthetic substituted boronates of dihydroxy-bacteriochlorin absorbing and emitting far-red to near-infrared light as bacteriopheophytin-a analogs," *Dyes Pigm.*, **175**, 108155 (2020).
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5. **S. Shoji**, T. Ogawa, S. Matsubara, H. Tamiaki, "Bioinspired supramolecular nanosheets of zinc chlorophyll assemblies," *Sci. Rep.*, **9**, Article number: 14006 (2019).
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6. **S. Shoji**, Y. Nomura, H. Tamiaki, "Heterodimers of zinc and free-base chlorophyll derivatives co-assembled in biomimetic chlorosomal J-aggregates," *Photochem. Photobiol. Sci.*, **18**, 555–562 (2019).
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7. **S. Shoji**, H. Tamiaki, "Supramolecular light-harvesting antenna system by co-aggregates of zinc (bacterio)chlorophyll-a derivatives with biomimetic chlorosomal self-assemblies," *Dyes Pigm.*, **160**, 514–518 (2019).
DOI: 10.1016/j.dyepig.2018.08.026
8. **S. Shoji**, T. Ogawa, T. Hashishin, H. Tamiaki, "Self-assemblies of zinc bacteriochlorophyll-d analogues having amide, ester and urea groups as Substituents at 17-position and observation of lamellar supramolecular nanostructures," *ChemPhysChem*, **19**, 913–920 (2018).
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9. S. Matsubara, **S. Shoji**, H. Tamiaki, "Self-aggregation of synthetic chlorophyll-c derivative and effect of C17-acrylate residue on bridging green gap in chlorosomal model," *J. Photochem. Photobiol. A. Chem.*, **340**, 53–61 (2017).
DOI: 10.1016/j.jphotochem.2017.02.021
10. **S. Shoji**, T. Ogawa, T. Hashishin, S. Ogasawara, H. Watanabe, H. Usami, H. Tamiaki, "Nanotubes of biomimetic supramolecules constructed by synthetic metal chlorophyll derivatives," *Nano Lett.*, **16**, 3650–3654 (2016).
DOI: 10.1021/acs.nanolett.6b00781
11. **S. Shoji**, T. Mizoguchi, H. Tamiaki, "In vitro self-assemblies of bacteriochlorophylls-c from *Chlorobaculum tepidum* and their supramolecular nanostructures," *J. Photochem. Photobiol. A. Chem.*, **331**, 190–196 (2016).
DOI: 10.1016/j.jphotochem.2015.11.003
12. H. Tamiaki, K. Fukai, H. Shimazu, **S. Shoji**, "Synthesis of zinc chlorophyll homo/hetero-dyads and their folded conformers with porphyrin, chlorin and bacteriochlorin π -systems," *Photochem. Photobiol.*, **90**, 121–128 (2014).
DOI: 10.1111/php.12173
13. K. Sadaoka, **S. Shoji**, Y. Tsukatani, T. Yoshitomi, H. Tamiaki, S. Kashimura, Y. Saga, "Pheophytinization kinetics of chlorophyll c under weakly acidic conditions: Effects of acrylic acid residue at the 17-position," *Bioorg. Med. Chem.*, **21**, 6915–6919 (2013).
DOI: 10.1016/j.bmc.2013.09.032
14. **S. Shoji**, T. Mizoguchi, H. Tamiaki, "Reconstruction of rod self-aggregates of natural bacteriochlorophylls-c from *Chloroflexus aurantiacus*," *Chem. Phys. Lett.*, **578**, 102–105 (2013).
DOI: 10.1016/j.cplett.2013.06.012

15. M. Numata, M. Takayama, **S. Shoji**, H. Tamiaki, "Microflow-driven temporal self-assembly of amphiphilic molecules," *Chem. Lett.*, **41**, 1689–1691 (2012).
DOI: 10.1246/cl.2012.1689
16. Y. Kashiyama, A. Yokoyama, Y. Kinoshita, **S. Shoji**, H. Miyashita, T. Shiratori, H. Suga, K. Ishikawa, A. Ishikawa, I. Inouye, K. Ishida, D. Fujinuma, K. Aoki, M. Kobayashi, S. Nomoto, T. Mizoguchi, H. Tamiaki, "Ubiquity and quantitative significance of detoxification catabolism of chlorophyll associated with protistan herbivory," *Proc. Natl. Acad. Sci., USA*, **109**, 17328–17335 (2012).
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[Selected as Feature Article, Front Cover]
17. **S. Shoji**, T. Hashishin, H. Tamiaki, "Construction of chlorosomal rod self-aggregates in the solid state on any substrates from synthetic chlorophyll derivatives possessing an oligomethylene chain at the 17-propionate residue," *Chem. Eur. J.*, **18**, 13331–13341 (2012).
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[Selected as Back Cover]
18. N. Takahashi, **S. Shoji**, H. Tamiaki, Y. Saga, "Self-assembly of zinc bacteriochlorophyll *d* derivatives possessing a triethoxysilyl group at the 17-propionate residue," *Bull. Chem. Soc. Jpn.*, **85**, 989–994 (2012).
DOI: 10.1246/bcsj.20120043
19. H. Tamiaki, Y. Okamoto, Y. Mikata, **S. Shoji**, "Photooxidative cleavage of zinc 20-substituted chlorophyll derivatives: conformationally *P*-helix–favored formation of regioselectively 19–20 opened linear tetrapyrroles," *Photochem. Photobiol. Sci.*, **11**, 898–907 (2012).
DOI: 10.1039/C1PP05301A

OTHERS

1. 庄司 淳, 小川哲也, 民秋 均, Nanotech Japan Bulletin 企画特集 ナノテクノロジーPick Up ～新展開をもたらすナノテクノロジープラットフォーム～ <第29回> 「緑色光合成細菌の光捕集アンテナを模倣したクロロフィル自己集積体のナノ構造観察」, *NanotechJapan Bulletin*, **13**(1), 1–6 (2020). <https://www.nanonet.go.jp/magazine/feature/nanotech-pickup/29.html>
2. 複合系光機能研究会 ニュースレター No.10 今回の複合光ギャラリー (2020年1月20日).
3. Chem-Station 第235回スポットライトリサーチ「葉緑素だけが集積したナノシート」(2019年12月9日). <https://www.chem-station.com/blog/2019/11/chlorophyll.html>
4. 朝日新聞「葉緑素を利用して素材作り」(2019年11月11日).
5. 朝日新聞デジタル「『人工光合成』実現へ葉緑素を利用」(2019年10月31日).
6. 日刊工業新聞「葉緑素 微小シート 光合成の仕組みなど解明へ」(2019年10月28日).
7. 民秋 均, 庄司 淳, 「MgN₄」, 「ZnN₄」, 錯体化合物事典, 錯体化学会編, 朝倉書店, 450, 875 (2019).
8. 庄司 淳, 民秋 均, 「天然／人工光合成アンテナの構造・機能と最新動向」, MATERIAL STAGE, 技術情報協会, **16**(11), 36–42 (2017).

AWARDS

October, 2020	The Hokkaido University Research Encouragement Award 2020
November, 2014	2014 International Conference on Artificial Photosynthesis (ICARP) Excellent Poster Award
March, 2014	Excellent Doctoral Student Presentation Award (Ritsumeikan University)
March, 2013	Chemical Society of Japan (CSJ) Student Presentation Award 2013
March, 2012	Excellent Thesis for Master Degree (Graduate School of Life Science, Ritsumeikan University)