

Curriculum Vitae

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Name: Yuki IDE

Title: Specially Appointed Assistant Professor

Affiliation: Institute for Chemical Reaction Design and Discovery
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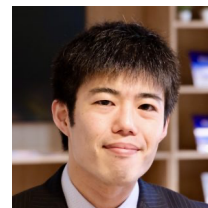
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Education

2013. 03 **B. Sc. and Eng.** Interdisciplinary Faculty of Science and Engineering, Shimane University, Japan (Supervisors: Prof. Makoto Handa and Assoc. Prof. Takahisa Ikeue)

2015. 03 **M. Sc.** Interdisciplinary Graduate School of Science and Engineering, Shimane University, Japan (Supervisors: Prof. Makoto Handa and Assoc. Prof. Takahisa Ikeue)

2018. 03 **Ph.D** Interdisciplinary Graduate School of Science and Engineering, Shimane University, Japan (Supervisor: Assoc. Prof. Takahisa Ikeue)

Employment

2020. 04 – present **Specially Appointed Assistant Professor**, Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Hokkaido University (Prof. Yasuhide Inokuma)

2018. 04 – 2020. 03 **Program-Specific Researcher**, Institute for Chemical Research (ICR), Kyoto University (Prof. Yasujiro Murata)

Awards

2014. 04 Shimane University Student Award

2013. 11 CSJ West Japan Chemistry Forum 2013 in Hiroshima, Student Presentation Award

Affiliated academic society

The Chemical Society of Japan(CSJ), The Society of Physical Organic Chemistry, Japan(JPOC), The Society of Electron Spin Science and Technology(SEST)

Publications (peer-reviewed)

21. Determination of the Critical Chain Length for Macromolecular Crystallization Using Structurally Flexible Polyketones.

Yuki Ide, Yumehiro Manabe, Yuya Inaba, Yusuke Kinoshita, Jenny Pirillo, Yuh Hijikata*, Tomoki Yoneda, Kilingaru I. Shivakumar, Saki Tanaka, Hitoshi Asakawa, Yasuhide Inokuma*, *Chem. Sci.*, **2022**, *13*, 9848–9854.

(Outside front cover, 2022 ChemSci Pick of the Week, 2022 Chemical Science HOT Article, Press Release)

DOI: [10.1039/d2sc03083g](https://doi.org/10.1039/d2sc03083g)

20. Alkali Metal Ion Binding using Cyclic Polyketones.

Narito Ozawa, Kilingaru I. Shivakumar, Muthuchamy Murugavel, Yuya Inaba, Tomoki Yoneda, **Yuki Ide**, Jenny Pirillo, Yuh Hijikata, Yasuhide Inokuma*, *Chem. Commun.*, **2022**, *58*, 2971–2974.

(Inside front cover and Hot Article) DOI: [10.1039/d2cc00361a](https://doi.org/10.1039/d2cc00361a)

19. Strain-Induced Ring Expansion Reactions of Calix[3]pyrrole-Related Macrocycles.

Yuya Inaba, Yu Kakibayashi, **Yuki Ide**, Jenny Pirillo, Yuh Hijikata, Tomoki Yoneda, Yasuhide Inokuma*, *Chem. Eur. J.*, **2022**, *28*, e202200056. (Hot Paper) DOI: [10.1002/chem.202200056](https://doi.org/10.1002/chem.202200056)

18. An H₂O₂ Molecule Stabilized inside Open-Cage C₆₀ Derivatives by a Hydroxy Stopper.

Guanglin Huang, Shota Hasegawa, Yoshifumi Hashikawa, **Yuki Ide**, Takashi Hirose, Yasujiro Murata*, *Chem. Eur. J.*, **2022**, *28*, e202103836. (Very Important Paper) DOI: [10.1002/chem.202103836](https://doi.org/10.1002/chem.202103836)

17. Isopyrazole-Masked Tetraketone: Tautomerism and Functionalization for Fluorescent Metal Ligands.

Hayato Shirakura, Yumehiro Manabe, Chika Kasai, Yuya Inaba, Makoto Tsurui, Yuichi Kitagawa, Yasuchika Hasegawa, Tomoki Yoneda, **Yuki Ide**, Yasuhide Inokuma*,

Eur. J. Org. Chem., **2021**, 4345–4349. DOI: [10.1002/ejoc.202100784](https://doi.org/10.1002/ejoc.202100784)

16. Calix[3]pyrrole: A Missing Link in Porphyrin-Related Chemistry.

Yuya Inaba, Yu Nomata, **Yuki Ide**, Jenny Pirillo, Yuh Hijikata, Tomoki Yoneda, Atsuhiko Osuka, Jonathan L. Sessler*, Yasuhide Inokuma*, *J. Am. Chem. Soc.*, **2021**, *143*, 12355–12360. (Press Release)

DOI: [10.1021/jacs.1c06331](https://doi.org/10.1021/jacs.1c06331)

15. Reversible Redox System of 2-Oxypyritriphyrin(1.2.1) Accompanying Interconversion between 3-Pyridone and 3-Hydroxypyridine Units.

Su-Gi Chong, Tomoki Yoneda*, **Yuki Ide**, Saburo Neya*, *Chem. Asian J.*, **2021**, *16*, 1077–1080.

DOI: [10.1002/asia.202100200](https://doi.org/10.1002/asia.202100200)

14. Insoluble π -Conjugated Polyimine as An Organic Adsorbent for Group 10 Metal Ions.

Hayato Shirakura, Yuh Hijikata*, Jenny Pirillo, Tomoki Yoneda, Yumehiro Manabe, Muthuchamy Murugavel, **Yuki Ide***, Yasuhide Inokuma*,

Eur. J. Inorg. Chem., **2021**, 1705–1708. DOI: [10.1002/ejic.202100172](https://doi.org/10.1002/ejic.202100172)

13. Aliphatic Polyketones as Classic Yet New Molecular Ropes for Structural Diversity in Organic Synthesis.

Yasuhide Inokuma*, Tomoki Yoneda, **Yuki Ide**, Shota Yoshioka,

Chem. Commun., **2020**, *56*, 9079–9093. (Future Article) DOI: [10.1039/d0cc02977g](https://doi.org/10.1039/d0cc02977g)

12. Singlet Oxygen Generation of Subphthalocyanine-fused Dimer and Trimer.

Rei Fujishiro, Hayato Sonoyama, Yuki Ide, Takuya Fujimura, Ryo Sasai, Nichole E.M. Kaufman, Zehua Zhou, M. Graça H. Vicente, Takahisa Ikeue*,
J. Porphyrins Phthalocyanines, **2019**, *24*, 211–219. DOI: [10.1142/S1088424619500895](https://doi.org/10.1142/S1088424619500895)

11. Coordination-Induced Spin-State Switching of An Aminyl-Radical-Bridged Nickel(II) Porphyrin Dimer between Doublet and Sextet States.

Daiki Shimizu, Yuki Ide, Takahisa Ikeue, Atsuhiko Osuka*,
Angew. Chem. Int. Ed., **2019**, *58*, 5023–5027. DOI: [10.1002/anie.201900792](https://doi.org/10.1002/anie.201900792)

10. Synthesis, Photodynamic Activities, and Cytotoxicity of New Water-soluble Cationic Gallium(III) and Zinc(II) Phthalocyanines.

Rei Fujishiro, Hayato Sonoyama, Yuki Ide, Takuya Fujimura, Ryo Sasai, Atsushi Nagai*, Shigeki Mori, Nichole E.M. Kaufman, Zehua Zhou, M. Graça H. Vicente, Takahisa Ikeue*
J. Inorg. Biochem., **2019**, *192*, 7–16. DOI: [10.1016/j.jinorgbio.2018.11.013](https://doi.org/10.1016/j.jinorgbio.2018.11.013)

9. Benzonorcorrole Ni^{II} Complexes: Enhancement of Paratropic Ring Current and Singlet Diradical Character by Benzo-Fusion.

Takuya Yoshida, Kohtaro Takahashi, Yuki Ide, Ryohei Kishi, Jun-ya Fujiyoshi, Sangsu Lee, Yuya Hiraoka, Dongho Kim, Masayoshi Nakano*, Takahisa Ikeue, Hiroko Yamada, Hiroshi Shinokubo*
Angew. Chem. Int. Ed., **2018**, *57*, 2209–2213. DOI: [10.1002/anie.201712961](https://doi.org/10.1002/anie.201712961)

8. Nickel (II) Pyrrocorphin: Enhanced Binding Ability in A Highly Reduced Porphyrin Complexes.

Yuki Ide, Takamitsu Kuwahara, Syo Takeshita, Rei Fujishiro, Masaaki Suzuki, Shigeki Mori, Hiroshi Shinokubo, Mikio Nakamura, Katsumi Yoshino, Takahisa Ikeue*
J. Inorg. Biochem., **2018**, *178*, 115–124. DOI: [10.1016/j.jinorgbio.2017.10.012](https://doi.org/10.1016/j.jinorgbio.2017.10.012)

7. Crystal Structure of A Six-coordinated [5,10,15,20-Tetrakis(2,4,6-trimethylphenyl) Porphyrinato-*k*⁴N]Iron(III) Complex with Two 3,5-Dimethylpyridine *N*-Oxides.

Yuki Ide, Haruka Hosoda, Hiroki Ishimae, Shigeki Mori, Takahisa Ikeue*
X-ray Struct. Anal. Online, **2017**, *33*, 49–51. DOI: [10.2116/xraystruct.33.49](https://doi.org/10.2116/xraystruct.33.49)

6. Crystal Structure of A Six-coordinated (2,3,7,8,12,13,17,18- Octaethyl porphyrinato)Iron(III) Complex with Two 4-Methylpyridine *N*-Oxides.

Yuki Ide, Yuya Yamada, Shigeki Mori, Takahisa Ikeue*
X-ray Struct. Anal. Online, **2017**, *33*, 25–27. DOI: [10.2116/xraystruct.33.25](https://doi.org/10.2116/xraystruct.33.25)

5. Different Antiferromagnetic Coupling between 5,5'- and 10,10'-Linked Iron(III) Corrole Dimers.

Takayuki Tanaka*, Shota Ooi, Yuki Ide, Takahisa Ikeue*, Masaaki Suzuki, Peter. P.-Y. Chen, Masashi Takahashi, Atsuhiko Osuka*,
Eur. J. Inorg. Chem., **2017**, *10*, 1374–1381. DOI: [10.1002/ejic.201601363](https://doi.org/10.1002/ejic.201601363)

4. Molecular Structure and Spectroscopic Properties of [2,3,9,10,16,17,23,24- octakis(3-carboxyphenoxy) Phthalocyaninato-k⁴N](Pyridine-kN) Zinc(II) Pyridine Octasolvate.

Rei Fujishiro, Hayato Sonoyama, Yuki Ide, Shigeki Mori*, Tamotsu Sugimori, Atsushi Nagai, Katsumi Yoshino, Mikio Nakamura, Takahisa Ikeue*

Heterocycles, **2017**, *94*, 131–139. DOI: [10.3987/COM-16-13608](https://doi.org/10.3987/COM-16-13608)

3. Spin-crossover between High-spin (S = 5/2) and Low-spin (S = 1/2) States in Six-coordinate Iron(III) Porphyrin Complexes having Two Pyridine-N Oxide Derivatives.

Yuki Ide, Nami Murai, Hiroki Ishimae, Masaaki Suzuki, Shigeki Mori*, Masashi Takahashi*, Mikio Nakamura*, Katsumi Yoshino, Takahisa Ikeue*,

Dalton Trans., **2017**, *46*, 242–249. DOI: [10.1039/c6dt03859j](https://doi.org/10.1039/c6dt03859j)

2. Preparation, Structure, and Dynamic and Electrochemical Behaviors of Dinuclear Rhodium(I) Complexes with Bridging Formamidinato Ligands.

Yuki Ide, Takahisa Ikeue*, Yusuke Kataoka, Ryoko Inoue, Mikio Nakamura*, Daisuke Yoshioka, Masahiro Mikuriya, Tatsuya Kawamoto, Makoto Handa*,

J. Organomet. Chem., **2016**, *803*, 92–103. DOI: [10.1016/j.jorganchem.2015.12.018](https://doi.org/10.1016/j.jorganchem.2015.12.018)

1. Synthesis, Structures, and Properties of Lantern-type Dinuclear Ruthenium(II,III) Complexes cis-[Ru₂{3,5-(CF₃)₂-pf}₂(O₂CMe)₂Cl] and [Ru₂{3,5-(CF₃)₂-pf}₃(O₂CMe)Cl], 3,5-(CF₃)₂-pf = N,N'-bis[3,5-bis(trifluoromethyl)phenyl] Formamidinate Anion.

Yasuko Harada, Takahisa Ikeue*, Yuki Ide, Yuko Kimura, Ichiro Hiromitsu, Daisuke Yoshioka, Masahiro Mikuriya*, Yusuke Kataoka*, Makoto Handa*,

Inorg. Chim. Acta, **2015**, *424*, 186–193. DOI: [10.1016/j.ica.2014.07.076](https://doi.org/10.1016/j.ica.2014.07.076)