

酒井 健 (公募 C 班)
2019 年度 会議発表

1. Yutaka Amao, "Visible-light driven CO₂ reduction and utilization with biocatalyst and organic dye hybrid system", National Taiwan University Special Lecture, (Taipei, Taiwan, 5/17/2019) 特別講演
2. Yutaka Amao, "Visible-light driven C-H bond activation and carboxylation with CO₂ in the system of bio/photo-hybrid catalysts", 8th Asia-Pacific Congress in Catalysis (APCAT8), (Bangkok, Thailand, 2019/8/7) 招待講演
3. Yutaka Amao, "Optical sensing technology for CO₂ visualization", 7th Japanese-German Joint Seminar, Molecular Imaging Technology for Interdisciplinary Research, (札幌市, 日本, 2019/9/16) 招待講演
4. Yutaka Amao, "Visible-Light Driven Carbon Dioxide Reduction to Methanol with Bio/Photocatalyst Hybrid System – Studies on the Interaction between Electron Mediator and Biocatalyst Based on Enzyme Kinetic Analysis", 3rd International Solar Fuels Conference (ISF-3) and International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島市, 日本, 11/21/2019) 基調講演
5. Yutaka Amao, "Visible Light Driven Carbon Dioxide Reduction to Methanol with Photo/Biocatalysts Hybrid System", 18th Asian Chemical Congress (18th ACC), (Taipei, Taiwan, 12/12/2019) 招待講演
6. Yutaka Amao, Takayuki Katagiri, "Visible-light driven C-H bond activation and carboxylation of CO₂ with bio-/photocatalytic hybrid system", 4th Green and Sustainable Chemistry Conference 2019, (Dresden, Germany, 5/6/2019)
7. Takayuki Katagiri, Shusaku Ikeyama, Yutaka Amao, "Biocatalytic carboxylation using CO₂ as the C1 source by malic enzyme and diphenylviologen derivative as an artificial co-enzyme", Southeast Asia Catalysis Conference 2019 (SACC 2019), (Singapore, Singapore, 5/23/2019)
8. Yusuke Minami, Shusaku Ikeyama, Yutaka Amao, "Hydrogen production based on formic acid decomposition with platinum nano particles dispersed by polyvinylpyrrolidone", The 8th World Hydrogen Technologies Convention (WHTC 2019), (東京都, 日本, 6/3/2019)
9. Yusuke Minami, Shusaku Ikeyama, Yutaka Amao, "Hydrogen production from formic acid catalyzed by platinum nano particles dispersed by polyvinylpyrrolidone", The 23rd Annual Green Chemistry & Engineering Conference and 9th International Conference on Green and Sustainable Chemistry, (Reston, USA, 6/12/2019)
10. Takayuki Katagiri, Shusaku Ikeyama, Yutaka Amao, "Biocatalytic carboxylation using

CO₂ as the C1 source by malic enzyme and diphenylviologen derivative as an artificial co-enzyme”, The 23rd Annual Green Chemistry & Engineering Conference and 9th International Conference on Green and Sustainable Chemistry, (Reston, USA, 6/12/2019)

11. Yutaka Amao, Tomoya Ishibashi, Shigeru Ikeda, “Light-driven CO₂ reduction to formate with the system of biocatalyst and semiconductor based photocatalyst”, 17th International Conference on Carbon Dioxide Utilization - ICCDU 2019, (Aachen, Germany, 6/25/2019)
12. Tomoya Ishibashi, Shusaku Ikeyama, Yutaka Amao, “Selective CO₂ reduction to formic acid with semiconductor photocatalyst and biocatalyst”, 8th Asia-Pacific Congress in Catalysis (APCAT8), (Bangkok, Thailand, 2019/8/5)
13. Yusuke Minami, Shusaku Ikeyama, Yutaka Amao, “Selective hydrogen production catalyzed by platinum nano particles dispersed by polyvinylpyrrolidone based on formate decomposition”, 8th Asia-Pacific Congress in Catalysis (APCAT8), (Bangkok, Thailand, 2019/8/5)
14. Takayuki Katagiri, Shusaku, Ikeyama, Yutaka Amao, “Carboxylation of organic molecule by CO₂ with biocatalyst and double-electron reduced diphenylviologen derivative”, 8th Asia-Pacific Congress in Catalysis (APCAT8), (Bangkok, Thailand, 2019/8/7)
15. Yutaka Amao, Tomoya Ishibashi, Shigeru Ikeda, “Hybrid system of biocatalyst and semiconductor based photocatalyst for light-driven CO₂ reduction to formate”, 14th European Congress on Catalysis (EuropaCat 2019), (Aachen, Germany, 8/20/2019)
16. Takayuki Katagiri, Shusaku, Ikeyama, Yutaka Amao, “Building carbon-carbon bond from CO₂ with malic enzyme and viologen derivative”, 4th EuCheMS Conference on Green and Sustainable Chemistry, (Tarragona, Spain, 9/24/2019)
17. Yutaka Amao, Yusuke Minami, “Selective Hydrogen Production from Formate with Polyvinylpyrrolidone-coordinated Platinum Nanoparticles”, 7th Asian Conference on Coordination Chemistry (ACCC7), (Kuala Lumpur, Malaysia, 10/17/2019)
18. 天尾 豊, “生体触媒による二酸化炭素の還元と分子への固定”, 第 57 回触媒研究懇談会, (大分県, 日本, 7/11/2019) 特別講演
19. 天尾 豊, “生体触媒を利用した二酸化炭素の物質変換”, 2019 年度先端錯体工学研究会 (SPACC) 年会, (岡山県, 日本, 8/10/2019) 特別講演
20. 天尾 豊, “生体触媒による二酸化炭素の利用と分子貯蔵”, 北海道大学大学院環境科学専攻講演会, (北海道, 日本, 9/4/2019) 特別講演
21. 天尾 豊, “Biocatalytic carbon dioxide conversion to organic molecule”, 錯体化学会第 69 回討論会, (愛知県, 日本, 9/21/2019) 招待講演

22. 片桐 毅之、池山 秀作、天尾 豊, “CO₂ fixation with malic enzyme and diphenylviologen derivative as a co-enzyme”, 第 10 回触媒科学研究発表会, (鳥取県, 日本, 6/7/2019)
23. 石橋 知也, 池山 秀作, 東 正信、天尾 豊, “Development of CO₂ reduction system using TiO₂ and formate dehydrogenase”, 第 10 回触媒科学研究発表会, (鳥取県, 日本, 6/7/2019)
24. 片桐 毅之、池山 秀作、天尾 豊, “生体触媒と二電子還元型ジフェニルビオローゲン誘導体を用いた二酸化炭素の有機分子への固定化”, 第 8 回 JACI/GSC シンポジウム, (東京都, 日本, 6/24/2019)
25. 南 祐輔、池山 秀作、天尾 豊, “ポリビニルピロリドンで分散した白金ナノ微粒子によるギ酸分解に基づく選択的水素生成機構の解明”, 第 124 回触媒討論会, (長崎県, 日本, 9/19/2019)
26. 石橋 知也, 池山 秀作, 東 正信、天尾 豊, “半導体光触媒とギ酸脱水素酵素を用いた水を電子源とする光駆動型二酸化炭素還元反応に関する研究”, 第 124 回触媒討論会, (長崎県, 日本, 9/19/2019)
27. 片桐 毅之、池山 秀作、天尾 豊, “生体触媒と人工補酵素ジフェニルビオローゲン誘導体を用いた二酸化炭素の固定化”, 第 124 回触媒討論会, (長崎県, 日本, 9/19/2019)
28. 南 祐輔、池山 秀作、天尾 豊, “ポリビニルピロリドンを保護コロイドとして分散させた白金ナノ微粒子が触媒するギ酸分解に基づく選択的水素生成機構”, 第 49 回石油・石油化学討論会 (山形大会), (山形県, 日本, 10/31/2019)
29. 石橋 知也, 池山 秀作, 東 正信、天尾 豊, “TiO₂ とギ酸脱水素酵素を用いた水を電子源とする CO₂ 光還元系の開発”, 第 49 回石油・石油化学討論会 (山形大会), (山形県, 日本, 10/31/2019)
30. 片桐 毅之、池山 秀作、天尾 豊, “リンゴ酸酵素が触媒する二酸化炭素固定反応における多電子蓄積ジフェニルビオローゲン誘導体の機能に関する研究”, 第 49 回石油・石油化学討論会 (山形大会), (山形県, 日本, 10/31/2019)
31. 南 祐輔、池山 秀作、天尾 豊, “ポリビニルピロリドンで分散した白金微粒子が触媒するギ酸分解機構の分光法による検討”, 第 38 回水素エネルギー協会大会 (HESS 大会), (東京都, 日本, 12/3/2019)
32. 佐藤 涼平、池山 秀作、天尾 豊, “ギ酸脱水素酵素が触媒する二酸化炭素還元反応における二酸化炭素反応種の影響”, 日本化学会第 100 春季年会, (千葉県, 日本, 3/22/2019)
33. 南 祐輔、池山 秀作、天尾 豊, “ギ酸分解に基づく水素生成を触媒する白金ナノ微粒子触媒の機構解明”, 日本化学会第 100 春季年会, (千葉県, 日本, 3/22/2019)
34. Takayuki Katagiri, Shusaku, Ikeyama, Yutaka Amao, “Effect of metal ion on the CO₂ addition by malic enzyme with viologen derivative”, 日本化学会第 100 春季年会, (千葉

県, 日本, 3/24/2019)