

押切友也 (公募C班)

2021年度 会議発表

1. Yoshiki Suganami, Tomoya Oshikiri, Hideyuki Mitomo, Xu Shi, Yasutaka Matsuo, Kuniharu Ijima, Hiroaki Misawa, "Surface-enhanced Raman Scattering Substrate under Modal Strong Coupling between Nanocavity and Plasmons of Gold Nanoparticles Loaded by Self-assembly Method", 日本化学会 第 102 春季年会 (オンライン, 3/24/2022)
2. Yen-En Liu, Xu Shi, Tomoya Oshikiri, Yuji Sunaba, Keiji Sasaki, Hiroaki Misawa, "Near-field Distribution under Modal Strong Coupling with Coherent Interaction", 日本化学会 第 102 春季年会 (オンライン, 3/24/2022)
3. Tomoya Oshikiri, Quan Sun, Hiroki Yamada, Zu Shuai, Keiji Sasaki, Hiroaki Misawa, "Extrinsic Chirality by Interference between Two Plasmonic Modes on an Achiral Rectangular Nanostructure Using Multi-photon Photoemission Electron Microscopy", 日本化学会 第 102 春季年会 (オンライン, 3/24/2022)
4. 押切 友也, "プラズモン-ナノ共振器モード強結合下での光カソード上でのホットホール注入を伴う水素発生", プラズモニク化学研究会 第 2 回次世代プラズモニク化学への挑戦 (オンライン, 3/18/2022)
5. 押切 友也, "光カソードにおけるプラズモン-ナノ共振器強結合形成機構の解明", 新学術領域「革新的光物質変換」第 4 回最終公開シンポジウム (日本, 淡路, 淡路夢舞台国際会議場/オンラインハイブリッド, 3/4/2022)
6. Xin Fan, Xu Shi, Tomoya Oshikiri, Hiroaki Misawa, "Fabrication of photocathode composed of Au-Cu alloy nanoparticles and p-NiO", Pacificchem 2021 (オンライン, 12/20/2021)
7. Zang Xiaoqian, Xu Shi, Tomoya Oshikiri, Kosei Ueno, Hiroaki Misawa, "Surface enhanced Raman Scattering Using Modal Strong Coupling", Pacificchem 2021 (オンライン, 12/20/2021)
8. Yoshiki Suganami, Tomoya Oshikiri, Xu Shi, Quan Sun, Hiroaki Misawa, "Water oxidation under modal ultrastrong coupling condition using Au/Ag alloy nanoparticles and Fabry-Pérot nanocavity", Pacificchem 2021 (オンライン, 12/20/2021)
9. Kazuki Furuya, Tomoya Oshikiri, Shi Xu, Quan Sun, Hiroaki Misawa, "Plasmonic properties of gold nanoparticles on TiO₂/SiO₂ microsphere showing whispering gallery mode", Pacificchem 2021 (オンライン, 12/20/2021)
10. En Cao, Quan Sun, Shuai Zu, Xu Shi, Tomoya Oshikiri, Hiroaki Misawa, "Effect of Metallic Adhesion Layer on Plasmon Induced Photocurrent Generation", Pacificchem 2021 (オンライン, 12/20/2021)

11. Yen-En Liu, Xu Shi, Quan Sun, Tomoya Oshikiri, Hiroaki Misawa, "Influence of Particle Density on Modal Strong Coupling Photonics Properties between Plasmon and Nanocavity Resonance", Pacificchem 2021 (オンライン, 12/20/2021)
12. Yaguang Wang, Xu Shi, Tomoya Oshikiri, Shuai Zu, Kosei Ueno, Hiroaki Misawa, "Plasmon-induced Photocurrent Generation on Ga₂O₃ Loaded with Gold Nanoparticles", Pacificchem 2021 (オンライン, 12/20/2021)
13. Tomoya Oshikiri, Xu Shi, Haruki Jo, Xin Fan, Hiroaki Misawa, "Enhanced photoelectrochemical reduction using photocathode under weak coupling between plasmon and Fabry-Pérot nanocavity", Pacificchem 2021 (オンライン, 12/19/2021)
14. Kazuki Furuya, Tomoya Oshikiri, Shi Xu, Christophe Pin, Keiji Sasaki, Hiroaki Misawa, "Loading of gold nanoparticles on microsphere showing whispering gallery modes", the 22nd RIES-Hokudai International Symposium '癒' (オンライン, 12/16/2021)
15. Minori Ishihara, Tomoya Oshikiri, Yocefu Hattori, Xu Shi, Hiroaki Misawa, "Hot-electron transfer on photoanode with multilayer gold nanoparticles under strong coupling between plasmon and Fabry-Pérot nanocavity", the 22nd RIES-Hokudai International Symposium '癒' (オンライン, 12/16/2021)
16. Tomoya Oshikiri, Xu Shi, Hiroaki Misawa, "Photoelectrochemical Reactions on Photoanode and Photocathode Bearing Plasmonic Nanoparticles", 2021 5+2 International Joint Symposium (オンライン, 11/18/2021) Invited
17. Tomoya Oshikiri, Xu Shi, Hiroaki Misawa, "Hydrogen Evolution under Visible Light Irradiation using a Photocathode with Modal Coupling between Plasmon and Nanocavity", 11th Asian Photochemistry Conference (オンライン, 11/4/2021)
18. Minori Ishihara, Tomoya Oshikiri, Yocefu Hattori, Xu Shi, Hiroaki Misawa, "Hot-electron transfer on photoanode with multilayered gold nanoparticles under modal strong coupling condition between plasmon and Fabry-Pérot nanocavity", 11th Asian Photochemistry Conference (オンライン, 11/1/2021)
19. 岡崎 めぐみ, 菅浪 誉騎, 押切 友也, 横井 俊之, 三澤 弘明, 前田 和彦, "プラズモン-ファブリ・ペローナノ共振器間のモード強結合を利用した光アノードに対する酸化コバルト助触媒の担持効果", 第128回触媒討論会 (オンライン, 9/16/2021)
20. 古屋 和樹, 押切 友也, 石 旭, 三澤 弘明, "微小球共振器モードを示すマイクロ粒子への金ナノ粒子の担持", 2021年光化学討論会 (オンライン, 9/15/2021)
21. 石原 穂, 押切 友也, 服部 誉聖夫, 石 旭, 三澤 弘明, "多層金ナノ粒子構造を用いたプラズモン-ファブリ・ペローナノ共振器強結合電極における光電気化学特性", 2021年光化学討論会 (オンライン, 9/15/2021)
22. Yen-En Liu, Xu Shi, Tomoya Oshikiri, Keiji Sasaki, Hiroaki Misawa, "Spatial-coherence-enhanced hot-electron generation under modal strong coupling conditions", 2021年光

化学討論会 (オンライン, 9/15/2021)

23. Zang Xiaoqian, Xu Shi, Tomoya Oshikiri, Yuji Sunaba, Keiji Sasaki, Hiroaki Misawa, "Surface-Enhanced Raman Scattering under Plasmon-Nanocavity Coupling Condition", 2021 年光化学討論会 (オンライン, 9/15/2021)
24. 押切友也, 石旭, 三澤弘明, "可視光応答性モード結合光カソードを用いた水素発生", 2021 年光化学討論会 (オンライン, 9/14/2021)
25. Yoshiki Suganami, Tomoya Oshikiri, Hedeyuki Mitomo, Xu Shi, Kuniharu Ijro, Hiroaki Misawa, "Enhancement of modal strong coupling strength with high particle number density of gold nanoparticles using self-assembly method", 2021 年光化学討論会 (オンライン, 9/14/2021)
26. Yaguang Wang, Xu Shi, Tomoya Oshikiri, Hiroaki Misawa, "Development of the effective electron injection system using modal coupling into Ga_2O_3 conduction band with the large negative potential", 2021 年光化学討論会 (オンライン, 9/14/2021)
27. Hiroaki Misawa, Tomoya Oshikiri, Xu Shi, Keiji Sasaki, "Enhanced water oxidation reaction under strong coupling conditions", 30th International conference on photochemistry (オンライン, 7/22/2021) Invited
28. Tomoya Oshikiri, Haruki Jo, Xu Shi, Hiroaki Misawa, "Hydrogen evolution using a photocathode under modal coupling between plasmon and Fabry-Pérot nanocavity", 30th International conference on photochemistry (オンライン, 7/20/2021)
29. Yoshiki Suganami, Tomoya Oshikiri, Xu Shi, Hiroaki Misawa, "Water oxidation under modal ultra-strong coupling condition using Au/Ag alloy nanoparticles and Fabry-Pérot nanocavity", 30th International conference on photochemistry (オンライン, 7/20/2021)
30. En Cao, Xu Shi, Quan Sun, Shuai Zu, Tomoya Oshikiri, Hiroaki Misawa, "Effect of adhesion layer on electron transfer between metallic nanostructures and semiconductor under modal strong coupling condition", 30th International conference on photochemistry (オンライン, 7/20/2021)
31. Yen-En Liu, Xu Shi, Quan Sun, Tomoya Oshikiri, Hiroaki Misawa, "Coherent-interaction-enhanced hot-electron generation under modal strong coupling conditions", 30th International conference on photochemistry (オンライン, 7/19/2021)
32. Tomoya Oshikiri, Haruki Jo, Xu Shi, Hiroaki Misawa, "Fabrication of gold-nanoparticle/nickel oxide/platinum-film photocathode with modal coupling between plasmon and nanocavity", Nano Korea 2021 (韓国, Goyang, KINTEX/オンラインハイブリッド, 7/8/2021)