

## <報文>

### (原著論文)

- [1] Md. Maruf Hossain, Xiang Zhang, Shinichirou Minemoto, and Hirofumi Sakai, "Stronger orientation of state-selected OCS molecules with relative-delay-adjusted nanosecond two-color laser pulses," *J. Chem. Phys.* **156**, 041101 (7 pages) (2022).
- [2] Je Hoi Mun, Shinichirou Minemoto, Dong Eon Kim, and Hirofumi Sakai, "All-optical control of pendular qubit states with nonresonant two-color laser pulses," to appear in *Commun. Phys.* (8 pages) (2022).
- [3] S. Minemoto, T. Teramoto, T. Majima, T. Mizuno, J. H. Mun, S. H. Park, S. Kwon, A. Yagishita, and D. Toffoli, "Photoelectron angular distribution studies for two spin-orbit-split components of Xe 3d subshell: a critical comparison between theory and experiment," *J. Phys. B* **54**, 105003 (11 pages) (2021).

### (学位論文)

- [4] Ke Tong, "Toward the formation of a molecular ensemble with macroscopic threefold symmetry," Master's thesis, September 2021.

## <学術講演>

### (国際会議)

### 一般講演

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- [6] Takahiro Teramoto, Shinichirou Minemoto, Takuya Majima, Tomoya Mizuno, Je Hoi Mun, Sang Han Park, Soonnam Kwon, Akira Yagishita, Piero Decleva, Mauro Sterner, Shota Tsuru, "Probing local structure of iodobenzene molecules with photoelectron diffraction using a soft X-ray free-electron laser," 36th Symposium on Chemical Kinetics and Dynamics, presented on June 4th, 2021 (online).
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### (国内会議)

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- [9] Je Hoi Mun, Hirofumi Sakai, and Dong Eon Kim, "Time-dependent unitary transformation method to numerically solve the strong-field-ionization dynamics in the Kramers-Henneberger frame," 2021年第82回応用物理学会秋季学術講演会、オンライン、2021年9月13日(月) .
- [10] 峰本 紳一郎、寺本 高啓、間嶋 拓也、水野 智也、Je Hoi Mun, Sang Han Park, Soonnam Kwon, 柳下 明、Decleva Piero、Sterner Mauro、水流 翔太、「軟X線自由電子レーザーを用いたX線光電子回折によるヨードベンゼンの局所構造解析」第15回分子科学討論会、オンライン、2021年9月19日(日) .
- [11] 峰本紳一郎、野下隼、原直樹、酒井広文、「逆回りに円偏光した2波長レーザーパルスの相対位相の安定化」、2022年第69回応用物理学会春季学術講演会、青山学院大学相模原キャンパス、2022年3月25日(金) .
- [12] Je Hoi Mun, Shinichirou Minemoto, Dong Eon Kim, and Hirofumi Sakai, "Controlling pendular qubit states with nonresonant two-color laser pulses," 2022年第69回応用物理学会春季学術講演会、オンライン、2022年3月25日(金) .