

ISUILS2022  
Poster Presentations

- P-1 Atomic and molecular ions in strong laser fields, in particular HeH<sup>+</sup>**  
Gerhard G. Paulus (*Institute of Optics and Quantum Electronics, Friedrich Schiller University Jena, Helmholtz Institute Jena,*)
- P-2 Efficient simulation quantum dynamics on a noisy quantum computer**  
Takanori Nishi, Erik Lötstedt, K. Yamanouchi (*Department of Chemistry, School of Science, The University of Tokyo*)
- P-3 Theoretical simulation of population inversion in N<sub>2</sub><sup>+</sup> in strong 400-nm laser fields**  
Erik Lötstedt,<sup>1</sup> Huailiang Xu,<sup>2</sup> Kaoru Yamanouchi<sup>1</sup> (<sup>1</sup> *Department of Chemistry, School of Science, The University of Tokyo,* <sup>2</sup> *State Key Laboratory of Integrated Optoelectronics, College of Electronic Science and Engineering, Jilin University*)
- P-4 Ultrafast pump-probe measurement of CO<sub>2</sub> by few-cycle NIR pulses and the high-order harmonics**  
Takuya Matsubara, Hiroki Mashiko, Tomoya Yamauchi, Kana Yamada, Toshiaki Ando, Atsushi Iwasaki, Kaoru Yamanouchi (*Department of Chemistry, School of Science, The University of Tokyo*)
- P-5 Identification of azimuthal magnetic fields in laser plasmas by using the Faraday effect of the second harmonic generated from laser-cluster interactions**  
Takafumi Asai<sup>1,2</sup>, Satoshi Jinno<sup>3</sup>, Ryazantsev Sergey<sup>4</sup>, Pikuz Tatiana<sup>5</sup>, Tomoya Yamauchi<sup>1</sup>, Masato Kanasaki<sup>1</sup>, Yuji Fukuda<sup>2</sup> (<sup>1</sup> *Graduate School of Maritime Sciences, Kobe University,* <sup>2</sup> *Kansai Photon Science Institute (KPSI), National Institutes for Quantum Science and Technology (QST),* <sup>3</sup> *Tono Geoscience Center, Japan Atomic Energy Agency (JAEA),* <sup>4</sup> *Joint Institute for High Temperatures of the Russian Academy of Sciences,* <sup>5</sup> *Institute for Open and Transdisciplinary Research Initiatives, Osaka University*)
- P-6 Separation of interface and substrate carrier dynamics at a heterointerface based on coherent phonons**  
K. Ishioka,<sup>1</sup> E. Angerhoffer,<sup>2</sup> C. J. Stanton,<sup>2</sup> G. Mette,<sup>3</sup> K. Volz,<sup>3</sup> W. Stolz,<sup>3</sup> U. Höfer<sup>3</sup> (<sup>1</sup> *National Institute for Materials Science,* <sup>2</sup> *Department of Physics, University of Florida,* <sup>3</sup> *Faculty of Physics and Materials Sciences Center, Philipps-Universität Marburg*)
- P-7 Anharmonic organic cation vibrations in hybrid lead halide perovskite**  
Kunie Ishioka, Terumasa Tadano, Masatoshi Yanagida, Yasuhiro Shirai, Kenjiro Miyano (*National Institute for Materials Science*)