

## 平成 28 年(2016 年)

### **【国際会議】**

New Generation Quantum Theory -Particle Physics, Cosmology, and Chemistry-

March 7-9, 2016

Kyoto University, Kyoto, Japan

P15 "Theoretical study of clusters by electronic stress tensor density and electronic kinetic energy density"

Hiroo Nozaki, Kazuhide Ichikawa, Akitomo Tachibana (poster) (3/8)

P16 "Theoretical Study of Local Physical Quantities for Spin in Chiral Molecules"

Ken Inada, Kota Soga, Masahiro Fukuda, Masato Senami, Akitomo Tachibana (poster) (3/8)

P17 "Thermalization and time evolution of wave function in QEDynamics (based on primary rigged QED)"

Yuuki Tanaka, Kazuma Tsukishima, Masato Senami, Akitomo Tachibana (poster) (3/8)

P18 "Theoretical study of atoms by the electronic kinetic energy density and stress tensor density"

Kento Naito, Hiroo Nozaki, Kazuhide Ichikawa, Akitomo Tachibana (poster) (3/8)

P19 "Theoretical study of internuclear distance dependence of the electronic stress tensor density in diatomic molecules"

Koki Taniuchi, Hiroo Nozaki, Kazuhide Ichikawa, Akitomo Tachibana (poster) (3/8)

P20 "Dynamical picture of spin Hall effect based on quantum spin vorticity theory"

Masahiro Fukuda, Masato Senami, Kazuhide Ichikawa, Akitomo Tachibana (poster) (3/8)

P21 "Local Spin Dynamics with the Electron Electric Dipole Moment"

Kota Soga, Masahiro Fukuda, Masato Senami, Akitomo Tachibana (poster) (3/8)

P22 "Theoretical Study of Local Conductive Property of Benzenedithiol"

Makoto Nakanishi, Hiroo Nozaki, Masato Senami, Kazuhide Ichikawa, Akitomo Tachibana (poster) (3/8)

## **THERMEC'2016 International Conference on PROCESSING & MANUFACTURING OF ADVANCED MATERIALS Processing, Fabrication, Properties, Applications**

May 20-June 3, Messe Congress Graz, Graz, Austria

"Tension density as counter force to the Lorentz force density"

Hiroo Nozaki, Masato Senami, Kazuhide Ichikawa, Akitomo Tachibana (Oral, Invited) (5/30)

**Fourth Changsha International Workshop on Theoretical and Computational Chemistry with Materials 2016**

June 10-12, Hunan Normal University, Changsha, China

**Twenty-first International Workshop on Quantum Systems in Chemistry, Physics, and Biology (QSCP-XXI)**

July 2-9, University of British Columbia, Vancouver, BC, Canada

“Local Physical Quantities for Spin Based on the Relativistic Quantum Field Theory in Molecular Systems”,

Masato Senami, Masahiro Fukuda, Kota Soga, Akitomo Tachibana (Oral, Invited, Plenary) (7/8)

**【国内発表】**

**§ 第 21 回電子デバイス界面テクノロジー研究会**

平成 28 年 1 月 22 日(金)～23 日(土)

東レ研修センター(三島市末広町 21-9)

P-10 「電子テンション密度を用いた局所電気伝導特性の解析」

埜崎 寛雄, 瀬波 大土, 市川 和秀, 立花 明知 (ポスター) (1/22)

P-21 「局所電気伝導率を用いたコンダクタンス評価方法」

中西 真, 埜崎 寛雄, 瀬波 大土, 立花 明知 (ポスター) (1/22)

**§ 第 63 回応用物理学会春季学術講演会**

平成 28 年 3 月 19 日(土)～22 日(火)

東京工業大学 大岡山キャンパス (東京都目黒区大岡山 2-12-1)

19p-P2-3 「電子テンション密度を用いた局所電気伝導特性の解析」

瀬波 大土, 埜崎 寛雄, 市川 和秀, 立花 明知 (ポスター) (3/19)

**§ 日本化学会第 96 春季年会(2016)**

平成 28 年 3 月 24 日(木)～27 日(日)

同志社大学京田辺キャンパス

2B4-01 「Theoretical study of atomic and molecular systems by electronic stress tensor density and kinetic energy density」

Kazuhide Ichikawa, Hiroo Nozaki, Akitomo Tachibana (Oral) (3/25)