2008

[1] Kentaro Doi, Yutaka Mikazuki, Shinya Sugino, Tatsuki Doi, Pawel Szarek, Masato S enami, Kenji Shiraishi, Hiroshi Iwai, Naoto Umezawa, Toyohiro Chikyo, Keisaku Yama da, and Akitomo Tachibana,

"Electronic Structure Study of Local Dielectric Properties of Lanthanoid Oxide Clusters,

Jpn. J. Appl. Phys., **47**, 205-211 (2008); errata, Ph.D. thesis, Pawel Szarek, 京都大学 学術情報リポジトリ(京都大学図書館機構)Szarek, Pawel. Theoretical Study of Elect ronic States of Chemical Bonds.

(化学結合の電子状態に関する理論的研究.)

http://hdl. handle. net/2433/66212

[2] Chenggang Zhou, Shujuan Yao, Jinping Wu, Robert Forrey, Liang Chen, Akitomo T achibana, and Hansong Cheng,

"Hydrogen dissociative chemisorption and desorption on saturated subnano palladium cl usters (Pdn, n = 2-9),"

Phys. Chem. Chem. Phys., 10, 5445-5451 (2008).

- [3] Akinori Fukushima, Kentaro Doi, Masato Senami, and Akitomo Tachibana, "Theoretical study for AlB nanowire as hydrogen adsorption material",
- J. Power Sorces 184, 60-76 (2008).
- [4] Pawel Szarek, Yutaka Sueda and Akitomo Tachibana,

"Electronic stress tensor description of chemical bonds using nonclassical bond order concept,"

- J. Chem. Phys. **129**, 094102-1-16 (2008).
- [5] Pawel Szarek, Edyta Dyguda-Kazimierowicz, Akitomo Tachibana, W. Andrzej Sokal ski,

"Physical Nature of Intermolecular Interactions within cAMP-Dependent Protein Kinase Active Site: Differential Transition State Stabilization in Phosphoryl Transfer Reaction," J. Phys. Chem. B, **112** (37), 11819–11826 (2008).