

# PCCP Prize Form (参考例)

The Chemical Society of Japan

Date: Year/ Month / Day(提出日)

Research Topic	<b>Dynamic aspects and associated structures of TiO<sub>2</sub>(110) and CeO<sub>2</sub>(111) surfaces relevant to oxide catalyses</b>
Name	Dr. Taro Kagaku
Date of Birth	Year/ Month / Day
Affiliation (Current Position)	Associate Professor of Chemistry University of Kagaku Graduate School of Chemistry Faculty of Science
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Division(s) Registered	Physical Chemistry, Catalytic Chemistry
Academic Carrier	1995 B.S. degree, Graduate School of Science, Kagaku Univ. 1999 Dr. degree, Graduate School of Science, Kyoto Kagaku Univ. 2001 Research fellow, Inst. Physical Molecular Science 2007 Associate Professor, University of Kagaku
Previous Award(s)	The Chemical Society of Japan Award for Young Chemists for 1998 Kagaku Medal 2001 (by CSJ)
Abstract (Approx. 500 Words)	This article gives a topical review of the dynamic behavior of surface species on two representative metal oxide surfaces of TiO <sub>2</sub> (110) and CeO <sub>2</sub> (111) investigated by scanning tunneling microscopy (STM) and noncontact atomic force microscopy (NC-AFM). In addition, two new aspects, the self-limiting growth of Pt nanoparticles from MeCpPtMe <sub>3</sub> on TiO <sub>2</sub> (110) regulated by a competitive reaction with TiO <sub>x</sub> suboxides and the inhomogeneous reactivity of surface oxygen atoms on CeO <sub>2</sub> (111) against methanol, are also imaged by STM and NC-AFM, which are relevant to key issues to understand the surface chemical reactivity and catalysis. -----
List of Publications (attached separately)	-----

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