



# HOKKAIDO UNIVERSITY

Title	Other Activities of the Institute
Citation	JOURNAL OF THE RESEARCH INSTITUTE FOR CATALYSIS HOKKAIDO UNIVERSITY, 22(3), 212-214
Issue Date	1975-10
Doc URL	<a href="https://hdl.handle.net/2115/24984">https://hdl.handle.net/2115/24984</a>
Type	departmental bulletin paper
File Information	22(3)_P212-214.pdf



## Other Activities of the Institute

## (General article)

- Dynamical Theory of Adsorption and Desorption Processes of Gas Atoms  
T. NAKAMURA  
Japanese J. App. Phys., Suppl. 2, Part 2, 603 (1974).
- Hydrogenation of Ethylene on Metal Electrodes, Part 2—Structure of the Adsorption Layer on Pt at a Working Condition on Open Circuit  
K. FUJIKAWA, A. KATAYAMA and H. KITA  
Faraday Trans. I, **70**, 1 (1974).
- Electrochemical Reduction of Acetone on Mercury Electrode in Aqueous Sulphuric Acid Solution  
H. KITA, S. ISHIKURA and A. KATAYAMA  
Electrochim. Acta, **19**, 555 (1974).
- Isomerization of 2-Pinene Catalyzed by Solid Acids  
R. OHNISHI, K. TANABE, S. MORIKAWA and T. NISHIZAKI  
Bull. Chem. Soc. Japan, **47**, 571 (1974).
- Hydrogen Redistribution of Acetone on ZnO Catalysts  
K. NAGAI, K. TANAKA and K. MIYAHARA  
Bull. Chem. Soc. Japan, **47**, 2847 (1974).
- Isotopic Study of Water Gas Reaction Catalyzed by Platinum  
M. MASUDA and K. MIYAHARA  
Bull. Chem. Soc. Japan, **47**, 1058 (1974).
- Correlation Holes and Wavefunctions for the  $^1S$ ,  $^1P^0$  and  $^3P^0$  States of Be, B<sup>+</sup> and C<sup>2+</sup>  
H. TATEWAKI and K. TANAKA  
J. Chem. Phys., **60**, 601 (1974).
- Studies on the Mechanism of the Hydrogen Electrode Reaction by Means of Deuterium Tracer-I. The Reaction Route  
T. MATSUSHIMA and M. ENYO  
Electrochim. Acta, **19**, 117 (1974).
- Studies on the Mechanism of the Hydrogen Electrode Reaction by Means of Deuterium Tracer-II. The Reaction Mechanism  
*idem, ibid.*, **19**, 125 (1974).

*Activities*

Studies on the Mechanism of the Hydrogen Electrode Reaction by Means of Deuterium Tracer-III. The Stoichiometric Number

*idem, ibid.*, **19**, 131 (1974).

Tunneling Processes at Highly Doped ZnO-Electrodes in Aqueous Electrolytes, Part II. Electron Exchange with the Valence Band

B. PETTINGER, H. SCHÖPPEL, T. YOKOYAMA and H. GERISCHER  
Ber. Bunsenges. Phys. Chem., **78**, 1024 (1974).

The Elastic Scattering of the Conduction Electrons by Oxygen Adsorbed on Pt Wire

M. WATANABE  
Japanese J. Appl. Phys. Suppl. 2, Part 2, 149 (1974).

Kinetic Analysis of the Mixed Potential in the Presence of the Concentration Polarization

T. KODERA, H. KITA and M. HONDA  
Proceedings of the fifth International Congress of Metallic Corrosion, **77** (1974), National Association of Corrosion Engineers, Houston.

Theory of Low-Energy Electron Diffraction in Angular Momentum and Momentum Representations

Y. HAMAUZU  
J. Phys. Soc. Japan, **36**, 227 (1974).

Molecular Orbital Calculation of Disordered Ni-Cu Alloy

H. ITOH  
J. Phys. F: Metal Physics, **4**, 1930 (1974).

EHMO Examination of Catalytic Activity of Cu/Ni Alloy

H. ITOH  
Japanese J. Appl. Phys. Suppl. 2, Part 2, 497 (1974).

**(Note, Letter and Short Communication)**

High Catalytic Activity of Iron Sulfates for Friedel-Crafts Type Benzylolation of Toluene with Benzyl Chloride

K. ARATA and I. TOYOSHIMA  
Chemistry Letters, 929 (1974).

Reversible Formation of Active Sites on Sulfurated Nickel Catalysts

A. TAKEUCHI, K. TANAKA and K. MIYAHARA  
Chem. Comm., 171 (1974).

*Activities*

- Catalysis and Coordinative Unsaturation of the Sulfurated Nickel Surface  
*idem, ibid.*, 411 (1974).
- Catalytic Activities of Alkaline Earth Metal Oxides for Isomerization of 2-Pinene  
R. OHNISHI and K. TANABE  
Chemistry Letters, 207 (1974).
- Isomerization of 2-Pinene over Monohydrates of Metal Sulfates  
R. OHNISHI, A. MATSUI and K. TANABE  
Bull. Chem. Soc. Japan, 47, 1398 (1974).
- Elementary Steps of Hydrogen Evolution at a Gold Electrode in Aqueous Sulfuric Acid  
T. SASAKI and A. MATSUDA  
Chemistry Letters, 141 (1974).
- Intermediate Oxygen Species of Homomolecular Oxygen Exchange and the Oxidation of CO over ZnO  
K. TANAKA and K. MIYAHARA  
J. Phys. Chem., 78, 2303 (1974).
- Intermediate of Oxygen Exchange Reaction on Illuminated TiO<sub>2</sub>  
K. TANAKA  
*ibid.*, 78, 555 (1974).
- Highly Active Nitrogen Chemisorbed Cobalt Promoted with Potassium Oxide  
N. TAKEZAWA, I. TOYOSHIMA and H. SUZUKI  
Z. Physik. Chem. N. F., 89, 323 (1974).
- (Review)**
- Electronic States and Surface Chemical Reactivity of Cu-Ni Alloy  
T. YAMASHINA and H. ITOH  
Nippon Kinzoku Gakkai Kaiho, 13, 583 (1974) (in Japanese).
- Solvated Electron and Electrochemistry  
A. MATSUDA  
Kagaku, 29, 311 (1974) (in Japanese).
- Theory of Reaction Rates as Based on the Stoichiometric Number Concept  
J. HORIUTI  
Annals New York Acad. Sciences, 213, 5 (1973).