

Subject index

- Activation energy and heats of reaction
Outlines of a theory of proton transfer (Horiuti, J. (199) 185)
- Adsorption isotherm with interaction
Horiuti's generalized rate expression and hydrogen electrode reaction (Kita, H. (199) 161)
- Adsorption of Sn, Zn
Dynamics of Sn and Zn atoms on a Si(1 1 1)-7 × 7 surface (Tanaka, K.-I. (199) 19)
- Adsorption
IR observation of adsorption and reactions of olefins on H-form zeolites (Kondo, J.N. (199) 27)
- Alkene hydrogenation
Design of molecular-imprinting metal-complex catalysts (Tada, M. (199) 115)
- Asymmetric synthesis
Design of molecular-imprinting metal-complex catalysts (Tada, M. (199) 115)
- Au catalyst
Preparation of supported gold catalysts by gas-phase grafting of gold acetylacetonate for low-temperature oxidation of CO and of H₂ (Okumura, M. (199) 73)
- Au(1 1 1)
An in situ STM study on Sb electrodeposition on Au(1 1 1): irreversible adsorption and reduction, underpotential deposition and mutual influences (Wu, Q. (199) 49)
- Belousov–Zhabotinski (BZ) reaction
The general theory of stoichiometric number by Juro Horiuti—Application to the analysis of the stoichiometries of chemical oscillation systems (Masuda, M. (199) 175)
- Catalysis
In Horiuti's footsteps: links between catalysis and electrocatalysis (Horányi, G. (199) 7)
- Catalyst design at surface
Design of molecular-imprinting metal-complex catalysts (Tada, M. (199) 115)
- Catalytic function
The role of bulk oxide ion in the catalytic oxidation reaction over metal oxide catalyst (Moro-oka, Y. (199) 139)
- Chemical oscillation
The general theory of stoichiometric number by Juro Horiuti—Application to the analysis of the stoichiometries of chemical oscillation systems (Masuda, M. (199) 175)
- Chemisorption
STM observation of molecular chirality and alignment on solid surface (Taniguchi, M. (199) 65)
- Chiral discrimination
STM observation of molecular chirality and alignment on solid surface (Taniguchi, M. (199) 65)
- Chloroform
Enthusiasm and philosophy of Professor Juro Horiuti (Tanabe, K. (199) 3)
- Clay nanocomposite
Leashed ferrocenes at clay surfaces: potential applications for environmental catalysis (Swearingen, C. (199) 149)
- Clay-modified electrodes
Leashed ferrocenes at clay surfaces: potential applications for environmental catalysis (Swearingen, C. (199) 149)
- Clusters of Sn₂, Zn₃, and Si₄
Dynamics of Sn and Zn atoms on a Si(1 1 1)-7 × 7 surface (Tanaka, K.-I. (199) 19)
- Clusters
Acetylene polymerization on supported transition metal clusters (Judai, K. (199) 103)
- CO oxidation
Preparation of supported gold catalysts by gas-phase grafting of gold acetylacetonate for low-temperature oxidation of CO and of H₂ (Okumura, M. (199) 73)
- CO oxidation
Template synthesis and characterization of gold nano-wires and -particles in mesoporous channels of FSM-16 (Araki, H. (199) 95)
- CO₂
Electrochemical reduction of carbon dioxide at various series of copper single crystal electrodes (Hori, Y. (199) 39)
- Cobalt
Design of molecular-imprinting metal-complex catalysts (Tada, M. (199) 115)
- Copper
Electrochemical reduction of carbon dioxide at various series of copper single crystal electrodes (Hori, Y. (199) 39)
- Crystal plane theory
Horiuti's generalized rate expression and hydrogen electrode reaction (Kita, H. (199) 161)
- Cyclotrimerization
Acetylene polymerization on supported transition metal clusters (Judai, K. (199) 103)

- Electrocatalysis
In Horiuti's footsteps: links between catalysis and electrocatalysis (Horányi, G. (199) 7)
Electrochemical reduction of carbon dioxide at various series of copper single crystal electrodes (Hori, Y. (199) 39)
- Electrochemical reactivity
Electrochemical behaviour of pseudomorphic overlayers: Pd on Au(1 1 1) (Kibler, L.A. (199) 57)
- Electrochemical reduction
Electrochemical reduction of carbon dioxide at various series of copper single crystal electrodes (Hori, Y. (199) 39)
- Electrolytic dissociation
Outlines of a theory of proton transfer (Horiuti, J. (199) 185)
- Elementary rate equation
A method of statistical mechanical treatment of equilibrium and chemical reactions (Horiuti, J. (199) 199)
- Ferrocenyl surfactants
Leashed ferrocenes at clay surfaces: potential applications for environmental catalysis (Swearingen, C. (199) 149)
- Formic acid oxidation
Electrochemical behaviour of pseudomorphic overlayers: Pd on Au(1 1 1) (Kibler, L.A. (199) 57)
- Gas-phase grafting method
Preparation of supported gold catalysts by gas-phase grafting of gold acetylacetonate for low-temperature oxidation of CO and of H₂ (Okumura, M. (199) 73)
- Generalized rate expression
Horiuti's generalized rate expression and hydrogen electrode reaction (Kita, H. (199) 161)
- Gold catalyst
Template synthesis and characterization of gold nano-wires and -particles in mesoporous channels of FSM-16 (Araki, H. (199) 95)
- Gold surface
STM observation of molecular chirality and alignment on solid surface (Taniguchi, M. (199) 65)
- Helicene
STM observation of molecular chirality and alignment on solid surface (Taniguchi, M. (199) 65)
- Heterogeneous rate equation
A method of statistical mechanical treatment of equilibrium and chemical reactions (Horiuti, J. (199) 199)
- Hydrogen electrode reaction
Outlines of a theory of proton transfer (Horiuti, J. (199) 185)
A method of statistical mechanical treatment of equilibrium and chemical reactions (Horiuti, J. (199) 199)
- Hydrogen ion catalysis
Outlines of a theory of proton transfer (Horiuti, J. (199) 185)
- Hydrogenation
In Horiuti's footsteps: links between catalysis and electrocatalysis (Horányi, G. (199) 7)
- Infrared absorption
Kinetics of the photocatalytic water-splitting reaction on TiO₂ and Pt/TiO₂ studied by time-resolved infrared absorption spectroscopy (Yamakata, A. (199) 85)
- IR spectroscopy
IR observation of adsorption and reactions of olefins on H-form zeolites (Kondo, J.N. (199) 27)
- Lateral strain
Electrochemical behaviour of pseudomorphic overlayers: Pd on Au(1 1 1) (Kibler, L.A. (199) 57)
- Mechanistic aspects
In Horiuti's footsteps: links between catalysis and electrocatalysis (Horányi, G. (199) 7)
- Mesoporous silica FSM-16
Template synthesis and characterization of gold nano-wires and -particles in mesoporous channels of FSM-16 (Araki, H. (199) 95)
- Metal complex
Design of molecular-imprinting metal-complex catalysts (Tada, M. (199) 115)
- Metal oxide catalysts
The role of bulk oxide ion in the catalytic oxidation reaction over metal oxide catalyst (Moro-oka, Y. (199) 139)
- Molecular imprinting
Design of molecular-imprinting metal-complex catalysts (Tada, M. (199) 115)
- Montmorillonite
Leashed ferrocenes at clay surfaces: potential applications for environmental catalysis (Swearingen, C. (199) 149)
- Nano-particle
Template synthesis and characterization of gold nano-wires and -particles in mesoporous channels of FSM-16 (Araki, H. (199) 95)
- Nano-wire
Template synthesis and characterization of gold nano-wires and -particles in mesoporous channels of FSM-16 (Araki, H. (199) 95)
- Nanocatalysis
Acetylene polymerization on supported transition metal clusters (Judai, K. (199) 103)
- On-top hydrogen
Horiuti's generalized rate expression and hydrogen electrode reaction (Kita, H. (199) 161)
- Oregonator
The general theory of stoichiometric number by Juro Horiuti—Application to the analysis of the stoichiometries of chemical oscillation systems (Masuda, M. (199) 175)
- Partition function of reacting system
Horiuti's generalized rate expression and hydrogen electrode reaction (Kita, H. (199) 161)
- Pd(1 1 1)
Electrochemical behaviour of pseudomorphic overlayers: Pd on Au(1 1 1) (Kibler, L.A. (199) 57)

- Philosophy of Prof. Horiuti
Enthusiasm and philosophy of Professor Juro Horiuti (Tanabe, K. (199) 3)
- Photocatalyst
Kinetics of the photocatalytic water-splitting reaction on TiO₂ and Pt/TiO₂ studied by time-resolved infrared absorption spectroscopy (Yamakata, A. (199) 85)
- Platinized electrode
In Horiuti's footsteps: links between catalysis and electrocatalysis (Horányi, G. (199) 7)
- Polymerization
Acetylene polymerization on supported transition metal clusters (Judai, K. (199) 103)
- Precursor state
Dynamics of Sn and Zn atoms on a Si(1 1 1)-7 × 7 surface (Tanaka, K.-I. (199) 19)
- Prototropy
Outlines of a theory of proton transfer (Horiuti, J. (199) 185)
- Pseudomorph
Electrochemical behaviour of pseudomorphic overlayers: Pd on Au(1 1 1) (Kibler, L.A. (199) 57)
- Rate expression of heterogeneous catalysis
Horiuti's generalized rate expression and hydrogen electrode reaction (Kita, H. (199) 161)
- Reaction kinetics
Kinetics of the photocatalytic water-splitting reaction on TiO₂ and Pt/TiO₂ studied by time-resolved infrared absorption spectroscopy (Yamakata, A. (199) 85)
- Reaction mechanism
Enthusiasm and philosophy of Professor Juro Horiuti (Tanabe, K. (199) 3)
- Reaction rate theory
Outlines of a theory of proton transfer (Horiuti, J. (199) 185)
- Reductive splitting
In Horiuti's footsteps: links between catalysis and electrocatalysis (Horányi, G. (199) 7)
- Replacement of surface atoms
Dynamics of Sn and Zn atoms on a Si(1 1 1)-7 × 7 surface (Tanaka, K.-I. (199) 19)
- Rhodium
Design of molecular-imprinting metal-complex catalysts (Tada, M. (199) 115)
- Ruthenium
Design of molecular-imprinting metal-complex catalysts (Tada, M. (199) 115)
- Sb electrodeposition
An in situ STM study on Sb electrodeposition on Au(1 1 1): irreversible adsorption and reduction, underpotential deposition and mutual influences (Wu, Q. (199) 49)
- Scanning tunneling microscopy
STM observation of molecular chirality and alignment on solid surface (Taniguchi, M. (199) 65)
- Selective oxidation
The role of bulk oxide ion in the catalytic oxidation reaction over metal oxide catalyst (Moro-oka, Y. (199) 139)
- Selectivity
Acetylene polymerization on supported transition metal clusters (Judai, K. (199) 103)
Design of molecular-imprinting metal-complex catalysts (Tada, M. (199) 115)
- Separation factor
Horiuti's generalized rate expression and hydrogen electrode reaction (Kita, H. (199) 161)
- Si(1 1 1)-7 × 7 surface
Dynamics of Sn and Zn atoms on a Si(1 1 1)-7 × 7 surface (Tanaka, K.-I. (199) 19)
- Single crystal electrode
Horiuti's generalized rate expression and hydrogen electrode reaction (Kita, H. (199) 161)
- Single crystal
Electrochemical reduction of carbon dioxide at various series of copper single crystal electrodes (Hori, Y. (199) 39)
- Size effect
Preparation of supported gold catalysts by gas-phase grafting of gold acetylacetonate for low-temperature oxidation of CO and of H₂ (Okumura, M. (199) 73)
- Spontaneous ionisation and electrolytic evolution of hydrogen at electrodes
Outlines of a theory of proton transfer (Horiuti, J. (199) 185)
- STM study
An in situ STM study on Sb electrodeposition on Au(1 1 1): irreversible adsorption and reduction, underpotential deposition and mutual influences (Wu, Q. (199) 49)
- STM
Dynamics of Sn and Zn atoms on a Si(1 1 1)-7 × 7 surface (Tanaka, K.-I. (199) 19)
- Stoichiometric number
The general theory of stoichiometric number by Juro Horiuti—Application to the analysis of the stoichiometries of chemical oscillation systems (Masuda, M. (199) 175)
- Stoichiometry of chemical reaction
The general theory of stoichiometric number by Juro Horiuti—Application to the analysis of the stoichiometries of chemical oscillation systems (Masuda, M. (199) 175)
- Support effect
Preparation of supported gold catalysts by gas-phase grafting of gold acetylacetonate for low-temperature oxidation of CO and of H₂ (Okumura, M. (199) 73)
- Supra-honeycomb layer of Zn₃
Dynamics of Sn and Zn atoms on a Si(1 1 1)-7 × 7 surface (Tanaka, K.-I. (199) 19)
- Surface restructuring
Dynamics of Sn and Zn atoms on a Si(1 1 1)-7 × 7 surface (Tanaka, K.-I. (199) 19)
- Tafel relation
Outlines of a theory of proton transfer (Horiuti, J. (199) 185)
- Template synthesis
Template synthesis and characterization of gold nano-wires and -particles in mesoporous channels of FSM-16 (Araki, H. (199) 95)

Template

Design of molecular-imprinting metal-complex catalysts (Tada, M. (199) 115)

The Tafel line

Horiuti's generalized rate expression and hydrogen electrode reaction (Kita, H. (199) 161)

Thermodynamics versus statistical thermodynamics

A method of statistical mechanical treatment of equilibrium and chemical reactions (Horiuti, J. (199) 199)

Titanium oxide

Kinetics of the photocatalytic water-splitting reaction on TiO_2 and Pt/TiO_2 studied by time-resolved infrared absorption spectroscopy (Yamakata, A. (199) 85)

Upd-hydrogen

Horiuti's generalized rate expression and hydrogen electrode reaction (Kita, H. (199) 161)

Water-splitting

Kinetics of the photocatalytic water-splitting reaction on TiO_2 and Pt/TiO_2 studied by time-resolved infrared absorption spectroscopy (Yamakata, A. (199) 85)

Zeolite micropores

IR observation of adsorption and reactions of olefins on H-form zeolites (Kondo, J.N. (199) 27)