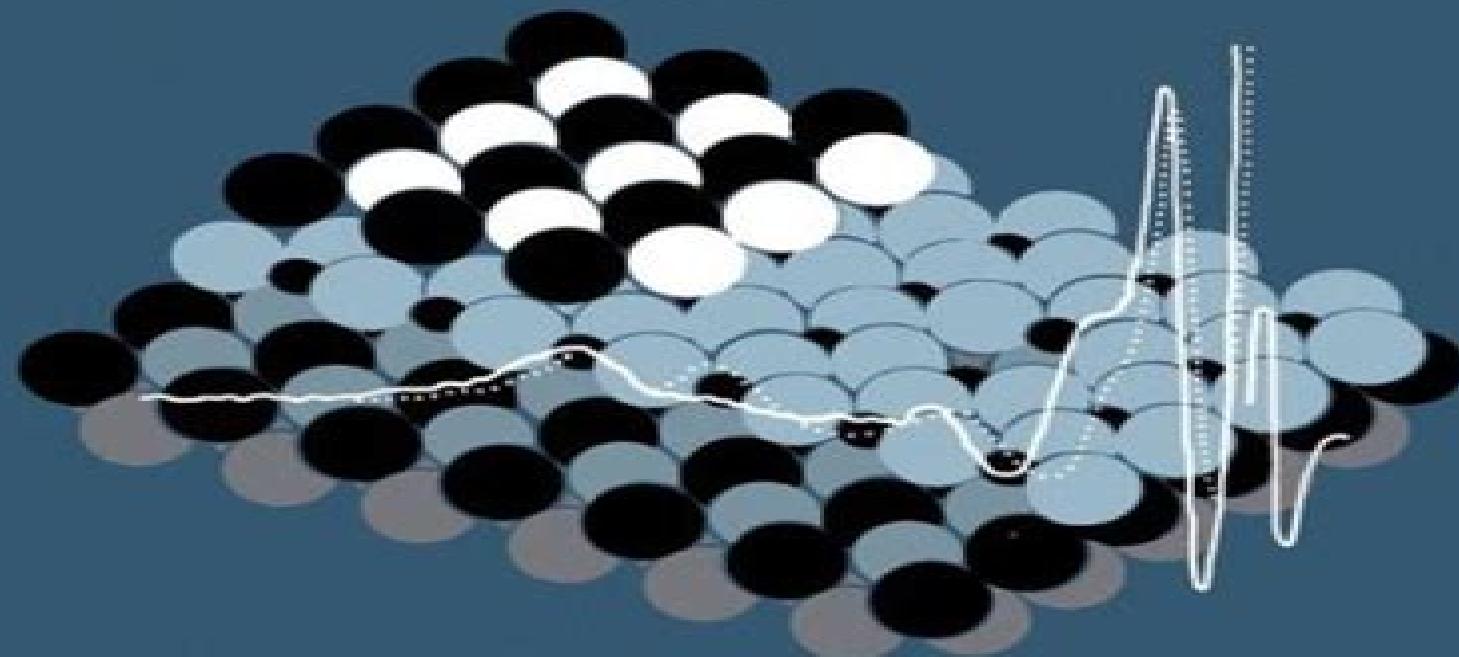


The Surface Science of Metal Oxides



V. E. HENRICH and P. A. COX

Surface Science Of Metal Oxides

H.H. Kung

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The Surface Science of Metal Oxides Victor E. Henrich,P. A. Cox,1994 Publisher Description [The Surface Science of Metal Oxides](#),2000

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The surface science of metal oxides is studied using a variety of experimental and theoretical techniques allowing the geometry electronic structure dynamics and the behaviour of the metal oxide metal interface to be explored Faraday Discussions documents a long established series of Faraday Discussion meetings which provide a unique international forum for the exchange of views and newly acquired results in developing areas of physical chemistry biophysical chemistry and chemical physics The papers presented are published in the Faraday Discussion volume together with a record of the discussion contributions made at the meeting Faraday Discussions therefore provide an important record of current international knowledge and views in the field concerned

Surface Science of Ultrathin Metal Oxide Films

J. Matharu,2011 The properties of metal oxide surfaces are key to their diverse technological applications However the semiconducting nature of metal oxides presents a problem many surface science techniques are electron based and thus require samples to be conducting As such bulk crystal studies of metal oxides by techniques such as photoemission spectroscopy PES and scanning tunneling microscopy STM are limited to reduced surfaces Alternatively thin films of a metal oxide can be synthesised on a suitable conducting substrate that mimic the bulk crystal surface whilst having sufficient conducting character to use these techniques CeO₂ is an important material found in three way catalysts that remove pollutants from the exhaust gas of modern automobiles Key to this application is the ability of reduced ceria to store and release oxygen depending on the composition of the exhaust The addition of noble metals such as Pd to the ceria surface greatly improves the efficiency of pollutant conversion evidenced by X ray photoelectron spectroscopy XPS by reducing the ceria Resonance photoemission spectroscopy RESPES has been used to investigate the effect of Pd on ceria CeO₂ x 110 thin films grown on a Pt 111 substrate RESPES is more surface specific than XPS and thus reveals more information on the surface layers of ceria films TiO₂ 110 is the most studied metal oxide surface and has a multitude of applications Its chemistry with two of the most abundant chemical species water H₂O and oxygen O₂ is thus very important H₂O has been shown to dissociate on TiO₂ surfaces TiO₂ thin films grown on W 100 were used as model system to study the chemistry of the reaction between TiO₂ and H₂O and subsequently the reaction of hydrated surfaces with O₂ using XPS STM was used to examine the morphology of TiO₂ 110 films grown on W 100 2 x 1 O changes with film thickness and methods of improving surface smoothness The first detailed STM images showing row structure of TiO₂ 110 films grown on W are shown

Transition Metal Oxides: Surface Chemistry and Catalysis; Studies in Surface Science and Catalysis Kung HH.,1989 *Springer Handbook of Surface Science* Mario Rocca,Talat Rahman,Luca Vattuone,2021-01-14 This handbook delivers an up to date comprehensive and authoritative coverage of the broad field of surface science encompassing a range

of important materials such metals semiconductors insulators ultrathin films and supported nanoobjects Over 100 experts from all branches of experiment and theory review in 39 chapters all major aspects of solid state surfaces from basic principles to applications including the latest ground breaking research results Beginning with the fundamental background of kinetics and thermodynamics at surfaces the handbook leads the reader through the basics of crystallographic structures and electronic properties to the advanced topics at the forefront of current research These include but are not limited to novel applications in nanoelectronics nanomechanical devices plasmonics carbon films catalysis and biology The handbook is an ideal reference guide and instructional aid for a wide range of physicists chemists materials scientists and engineers active throughout academic and industrial research

Surface Science Studies of Model Metal Oxide Systems

Bobbie-Jean Aine Shaw,2016 **Surface Science Studies of Metal Oxides Formed by Chemical Vapour Deposition on Silicon** Patrik Karlsson,2006 *Surface Science Studies of Model Metal Oxide Systems* B.-J. A. Shaw,2017

Surface Science Reports ,1998 *Oxide Surfaces* ,2001-05-21 The book is a multi author survey in 15 chapters of the current state of knowledge and recent developments in our understanding of oxide surfaces The author list includes most of the acknowledged world experts in this field The material covered includes fundamental theory and experimental studies of the geometrical vibrational and electronic structure of such surfaces but with a special emphasis on the chemical properties and associated reactivity The main focus is on metal oxides but coverage extends from simple rocksalt materials such as MgO through to complex transition metal oxides with different valencies

Current Trends of Surface Science and Catalysis Jeong Young Park,2013-10-23 This unique book covers the latest surface science studies on model catalysts including single crystals non colloidal nanocatalysts and nanoparticles in various forms with the control of size shape and composition This book addresses the issue of bridging materials and pressure gaps and also discusses the important issue of metal oxide interface and hot electron flows in heterogeneous catalysis The current development of in situ surface techniques that is relevant to bridging pressure gaps is also highlighted

52nd Colloid and Surface Science Symposium, June 12-14, L978

,1978 **Defects at Oxide Surfaces** Jacques Jupille,Geoff Thornton,2015-02-09 This book presents the basics and characterization of defects at oxide surfaces It provides a state of the art review of the field containing information to the various types of surface defects describes analytical methods to study defects their chemical activity and the catalytic reactivity of oxides Numerical simulations of defective structures complete the picture developed Defects on planar surfaces form the focus of much of the book although the investigation of powder samples also form an important part The experimental study of planar surfaces opens the possibility of applying the large armoury of techniques that have been developed over the last half century to study surfaces in ultra high vacuum This enables the acquisition of atomic level data under well controlled conditions providing a stringent test of theoretical methods The latter can then be more reliably applied to systems such as nanoparticles for which accurate methods of characterization of structure and electronic

properties have yet to be developed The book gives guidance to tailor oxide surfaces by controlling the nature and concentration of defects The importance of defects in the physics and chemistry of metal oxide surfaces is presented in this book together with the prominent role of oxides in common life The book contains contributions from leaders in the field It serves as a reference for experts and beginners in the field *Transition Metal Oxides* H.H. Kung,1989-04-01 In this book the author presents an up to date summary of existing information on the structure electronic properties chemistry and catalytic properties of transition metal oxides The subjects covered in the book can be divided into three sections The first chapters 1 to 3 covers the structural physical magnetic and electronic properties of transition metal oxides Although the emphasis is on surface properties relevant bulk properties are also discussed The second section chapters 4 to 7 covers surface chemical properties It includes topics that describe the importance of surface coordinative unsaturation in adsorption the formation of surface acidity and the role of acidity in determining surface chemical properties the nature and reactivities of adsorbed oxygen and the surface chemistry in the reduction of oxides The third section chapters 8 to 14 is on the catalytic properties Various catalytic reactions including decomposition hydrogenation isomerization metathesis selective oxidation and reactions involving carbon oxides are discussed Emphasis is placed more on reaction mechanisms and the role of catalysts than on kinetics and processes Chapters on the preparation of oxide catalysts and on photo assisted processes are also included Whenever appropriate relationships between various topics are indicated Written for surface physicists chemists and catalytic engineers the book will serve as a useful source of information for investigators and as a comprehensive overview of the subject for graduate students 21st Century Surface Science Phuong Pham,Pratibha Goel, Samir Kumar, Kavita Yadav, 2020 **Surface Science Reports** ,1997 **Surface Science** Fernando A. Ponce, Manuel Cardona, 1991 **Surface Science of Ultrathin Metal Oxide Films** Jai Matharu, 2011

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