Acces PDF Fajin Tour A Databases Spatial

Recognizing the exaggeration ways to acquire this books **Fajin Tour A Databases Spatial** is additionally useful. You have remained in right site to start getting this info. get the Fajin Tour A Databases Spatial join that we have enough money here and check out the link.

You could buy lead Fajin Tour A Databases Spatial or acquire it as soon as feasible. You could quickly download this Fajin Tour A Databases Spatial after getting deal. So, when you require the books swiftly, you can straight acquire it. Its hence entirely simple and consequently fats, isnt it? You have to favor to in this atmosphere

KEY=A - RODGERS MCKENZIE

Noble and Precious Metals Properties, Nanoscale Effects and Applications *BoD – Books on Demand* The use of copper, silver, gold and platinum in jewelry as a measure of wealth is well known. This book contains 19 chapters written by international authors on other uses and applications of noble and precious metals (copper, silver, gold, platinum, palladium, iridium, osmium, rhodium, ruthenium, and rhenium). The topics covered include surface-enhanced Raman scattering, quantum dots, synthesis and properties of nanostructures, and its applications in the diverse fields such as high-tech engineering, nanotechnology, catalysis, and biomedical applications. The basis for these applications is their high-free electron concentrations combined with high-temperature stability and corrosion resistance and methods developed for synthesizing nanostructures. Recent developments in all these areas with up-to-date references are emphasized. **The Six Healing Sounds Taoist Techniques for Balancing Chi** *Simon and Schuster* The Six Healing Sounds that keep the vital organs in optimal condition • Presents vocalizations and accompanying postures that dissolve the tensions at the root of unhealthy chi flow and organ malfunction • Shows how to release excess heat trapped around the organs and redistribute it to cooler regions of the body to bring balance, health, and calmness to the entire system Thousands of years ago Taoist masters discovered that a healthy organ vibrates at a particular frequency. They found six sounds with the correct frequencies to keep each organ in optimal condition. To accompany these Six Healing Sounds, six postures were developed to activate the acupuncture meridians, or energy channels, of the corresponding organs. In The Six Healing Sounds Master Mantak Chia explains how the pressures of modern life can cause excess heat to become trapped around the organs, causing energy blockages and sickness. He shows readers how the vibrations of the Six Healing Sounds and their accompanying postures redistribute this excess heat to the cooler regions of the body, thereby stimulating and balancing chi energy and restoring the vital organs. Regular practice of the Six Healing Sounds promotes optimal health for the organs, increased sexual pleasure, emotional balance, and the prevention of illness. **Nanoporous Gold From an Ancient Technology to a High-tech Material** *Royal Society of Chemistry* High-surface-area materials have recently attracted significant interest due to potential applications in various fields such as electrochemistry and catalysis, gas-phase catalysis, optics, sensors and actuators, energy harvesting and storage. In contrast to classical materials the properties of high-surface-area materials are no longer determined by their bulk, but by their nanoscale architecture. Nanoporous gold (np-Au) represents the fascinating class of mesoporous metals that have been intensively investigated in recent years. The current interest and the increasing number of scientific publications show that np-Au by itself is an outstanding nano-material that justifies a book devoted to all aspects of its properties and applications. The resulting publication is a discussion of this unique nano-material and is an accessible and comprehensive introduction to the field. The book provides a broad, multi-disciplinary platform to learn more about the properties of nanoporous gold from an inter-disciplinary perspective. It starts with an introduction and overview of state-of-the-art applications and techniques characterizing this material and its applications. It then covers the progress in research within the last years. The chapters are in-depth overviews written by the world's leading scientists in the particular field. Each chapter covers one technique or application so that the reader can easily target their favoured topic and will get the latest and state-of-the-art information in the field. **Can Banks Still Keep a Secret?** *Cambridge University Press* An insight into bank secrecy in major jurisdictions, complemented by chapters on privacy, data protection, conflict of laws and exchange of information. **Theoretical Heterogeneous Catalysis** *World Scientific* The molecular basis of surface chemical reactivity forms the central theme of this book. It is an attempt to survey current understanding about the working of heterogeneous catalysts, emphasizing surface chemical bonding in relation to reaction mechanisms. Contents:Concepts in Catalysis:ReferencesTheories of Chemisorption:Theoretical Intermezzo 1. Background to the Extended-Hückel Method and other Semi-Empirical MethodsElementary Quantum Chemistry of Chemisorption to Metal Surfaces. Tamm Surface States, Surface Molecule LimitMolecular Basis of Metal Catalysis:Quantum Chemistry of Surface Dissociation and Association ReactionsCatalysis of Synthesis Gas ConversionHydrocarbon Conversion CatalysisSelective Oxidation CatalysisThe Reactivity of Oxide Surfaces:General Physiochemical Properties of the Ionogenic Surface Pauling's Valency ConceptQuantum-Chemical Basis of Brønsted Acidity in ZeolitesThe Quantum-Chemical Basis of Heterogeneous Oxide CatalysisStatistical-Thermodynamic Theories of Surfaces:Gibb's RuleLattice Stability of ZeolitesFractals in Catalysisand other papers Readership: Chemists. keywords:Heterogeneous Catalysis;Quantum Chemistry;Surface Chemical Reactivity;Zeolites;Acidity;Surface Composition;Reaction Mechanism **Advances in Catalysis Impact of Surface Science on Catalysis** *Academic Press* Since 1948, this series has filled the gap between the papers that report on and the textbooks that teach in the diverse areas of catalysis research. The editors of and contributors to Advances in Catalysis are dedicated to recording progress in this area. Each volume of Advances in Catalysis contains articles covering a subject of broad interest. Advances in Catalysis 45 is dedicated to a single theme: the impact of surface science on catalysis. COVERAGE INCLUDES: · Dynamics of reactions at surfaces on time scales ranging from 10-13s to 103s · Density functional theory of adsorption and surface chemical

reactions · Catalysts in action: atomic-resolution STM images elucidating elementary reactions on surfaces · Adsorption energetics and bonding: femtomole calorimetry and first-principles theory · Active sites on oxide catalysts: from single crystals to powders · Model supported catalysts: metal particles on well-ordered oxide layers · Vibrational spectra of reaction intermediates on catalyst surfaces by sum frequency generation **Lives of Great Monks and Nuns** *Bdk America* The life of Aśvaghoṣa Bodhisattva / translated from the Chinese of Kumārajīva by Li Rongxi -- The life of Nāgārjuna Bodhisattva / translated from the Chinese of Kumārajīva by Li Rongxi -- Biography of Dharma Master Vasubandhu / translated from the Chinese of Paramārtha by Albert A. Dalia -- Biographies of Budhist nuns / translated from the Chinese of Baochang by Li Rongxi -- The journey of the eminent monk Faxian / translated from the Chinese of Faxian by Li Rongxi **Handbook of Microplastics in the Environment** *Springer* This reference work presents an authoritative review of microplastics as vectors of environmental contaminants and provides a comprehensive coverage of their ecotoxicological and toxicological effects. Divided into four sections, this book outlines the current analytical techniques and applications for sampling, processing analysis, and data reporting of microplastics pollution in the environment, explores microplastics degradation and interaction with chemical pollutants, discusses the fate and behaviour of microplastics in the environment, and provides valuable insights about prevention, regulation and remediation of microplastics pollution. Written by interdisciplinary expert academics and practitioners, this reference work will appeal to a wide readership of students, researchers and professionals interested in this field, including marine scientists, environmental scientists, analytical chemists, organic chemists, biochemists, biologists, polymer scientists, and toxicologists. **Microplastics in fisheries and aquaculture: Status of knowledge on their occurrence and implications for aquatic organisms and food safety** *Food & Agriculture Org.* An overview of the occurrence and effects of microplastics on aquatic organisms, with recommendations regarding seafood safety and security, environmental risk assessment approaches and targeted monitoring of microplastics in the environment. **Cheng Hsin T'ui Shou The Art of Effortless Power** *North Atlantic Books* This book provided this beginning tai-chi student with a rich, methodical philosophical "grounding" on some concepts that that are at the core of Eastern martial arts. Ralston helps the reader develop an awareness, quite literally "from the ground up". **Metal-Metal Bonding** *Springer Science & Business Media* None **High Resolution Powder Diffraction Proceedings of a Study Weekend Held at the Daresbury Laboratory, UK, 1-2 March 1986** *Trans Tech Publication* Materials Science Forum Vol. 9. **Microplastic in the Environment: Pattern and Process** *Springer Nature* This open access book examines global plastic pollution, an issue that has become a critical societal challenge with implications for environmental and public health. This volume provides a comprehensive, holistic analysis on the plastic cycle and its subsequent effects on biota, food security, and human exposure. Importantly, global environmental change and its associated, systems-level processes, including atmospheric deposition, ecosystem complexity, UV exposure, wind patterns, water stratification, ocean circulation, etc., are all important direct and indirect factors governing the fate, transport and biotic and abiotic processing of plastic particles across ecosystem types. Furthermore, the distribution of plastic in the ocean is not independent of terrestrial ecosystem dynamics, since much of the plastic in marine ecosystems originates from land and should therefore be evaluated in the context of the larger plastic cycle. Changes in species size, distribution, habitat, and food web complexity, due to global environmental change, will likely alter trophic transfer dynamics and the ecological effects of nano- and microplastics. The fate and transport dynamics of plastic particles are influenced by their size, form, shape, polymer type, additives, and overall ecosystem conditions. In addition to the risks that plastics pose to the total environment, the potential impacts on human health and exposure routes, including seafood consumption, and air and drinking water need to be assessed in a comprehensive and quantitative manner. Here I present a holistic and interdisciplinary book volume designed to advance the understanding of plastic cycling in the environment with an emphasis on sources, fate and transport, ecotoxicology, climate change effects, food security, microbiology, sustainability, human exposure and public policy. **Cell-based Therapies for Stroke: Promising Solution or Dead End?** *Frontiers Media SA* **Sustainable Value Management–New Concepts and Contemporary Trends** *MDPI* Sustainable value management reveals a new space for studying business models. The traditional approach is based on the assumption that the goal of any business is to make money. All decisions regarding supply and production should be made to maximize profit. The discrepancy in creating non-economic value is sometimes the result of separating ownership from control over an enterprise. Although shareholders are interested in maximizing profit, management that actually makes decisions can also pursue other goals. In addition to economic aspects, the management intentions of modern managers are also influenced by factors arising from the organizational culture built, co-created within the organization and sometimes with the participation of external actors such as suppliers and customers. The sources of the creation of social values will be the management intentions of top management, often initiated by the adopted values and rules on the basis of which resources are bound within the structure of the business model. The value of sustainability is based on the identification of those creative sources that relate to economic and social value. Economic value is created through social value and vice versa. This allows the complementarity of the value created to be mutually supportive. The business model that integrates both of these values should be more resistant to crises than the one that is oriented only toward producing economic value. Concurrent implementation of economic and social goals increases resilience and affects the success of modern business models. This is due to the specificity of the business ecosystem that is built as part of the business model, which, in essence, is based on the use of social factors to merge the business model into a complex ecosystem capable of producing value. **Plastics and the Environment** *John Wiley & Sons* Plastics offer a variety of environmental benefits. However, their production, applications, and disposal present many environmental concerns. Plastics and the Environment provides state-of-the-art technical and research information on the complex relationship between the plastic and polymer industry and the environment, focusing on the sustainability, environmental impact, and cost—benefit tradeoffs associated with different technologies. Bringing together the field’s leading researchers, Anthony Andrady’s innovative collection not only covers how plastics affect the environment, but also how environmental factors affect plastics. The relative benefits of recycling, resource recovery, and energy recovery are also discussed in detail. The first of the book’s four sections represents a basic introduction to the key subject matter of plastics and the environment; the second explores several pertinent applications of plastics with environmental implications–packaging, paints and coatings, textiles, and agricultural film use. The third section discusses the behavior of plastics in some of the environments in which they are typically used, such as the

outdoors, in biotic environments, or in fires. The final section consists of chapters on recycling and thermal treatment of plastics waste. Chapters include: Commodity Polymers Plastics in Transportation Biodegradation of Common Polymers Thermal Treatment of Polymer Waste Incineration of Plastics The contributors also focus on the effectiveness of recent technologies in mitigating environmental impacts, particularly those for managing plastics in the solid waste stream. Plastic and design engineers, polymer chemists, material scientists, and ecologists will find Plastics and the Environment to be a vital resource to this critical industry. **Nanomaterials: A Danger or a Promise? A Chemical and Biological Perspective** *Springer Science & Business Media* With the increased presence of nanomaterials in commercial products such as cosmetics and sunscreens, fillers in dental fillings, water filtration process, catalysis, photovoltaic cells, bio-detection, a growing public debate is emerging on toxicological and environmental effects of direct and indirect exposure to these materials. Nanomaterials: A Danger or a Promise? forms a balanced overview of the health and environmental issues of nanoscale materials. By considering both the benefits and risks associated with nanomaterials, Nanomaterials: A Danger or a Promise? compiles a complete and detailed image of the many aspects of the interface between nanomaterials and their real-life application. The full cycle of nanomaterials life will be presented and critically assessed to consider and answer questions such as: How are nanomaterials made? What they are used for? What is their environmental fate? Can we make them better? Including coverage of relevant aspects about the toxicity of manufactured nanomaterials, nanomaterials life cycle, exposure issues, Nanomaterials: A Danger or a Promise? provides a comprehensive overview of the actual knowledge in these fields but also presents perspectives for the future development of a safer nanoscience. This comprehensive resource is a key reference for students, researcher, manufacturers and industry professionals alike. **Canadian Journal of Fisheries and Aquatic Sciences Journal Canadien Des Sciences Halieutiques Et Aquatiques Climate Since A.D. 1500** *Psychology Press* Looks at how the climate has varied in the last 500 years **Cheng Hsin The Principles of Effortless Power** *North Atlantic Books* Every once in a while you find a high impact book. Something that awakens something deep within and lasts forever. This is the one. It is a book that you can pick up time and time again and always gets something new out of it, or something deeper than you. Cheng Hsin is the best introduction for beginners to the internal practice of fighting. It is a seminal work that draws on T'ai Chi Ch'uan, Aikido, and Pa Kua Chang and was written by the first Westerner ever to win the world championship in a full-contact martial arts tournament. **Sanyan Stories Favorites from a Ming Dynasty Collection** *University of Washington Press* Presented here are nine tales from the celebrated Ming dynasty Sanyan collection of vernacular stories compiled and edited by Feng Menglong (1574–1646), the most knowledgeable connoisseur of popular literature of his time in China. The stories he collected were pivotal to the development of Chinese vernacular fiction, and their importance in the Chinese literary canon and world literature has been compared to that of Boccaccio's Decameron and the stories of One Thousand and One Nights. Peopled with scholars, emperors, ministers, generals, and a gallery of ordinary men and women in their everyday surroundings—merchants and artisans, prostitutes and courtesans, matchmakers and fortune-tellers, monks and nuns, servants and maids, thieves and imposters—the stories provide a vivid panorama of the bustling world of imperial China before the end of the Ming dynasty. The three volumes constituting the Sanyan set—Stories Old and New, Stories to Caution the World, and Stories to Awaken the World, each containing forty tales—have been translated in their entirety by Shuhui Yang and Yunqin Yang. The stories in this volume were selected for their popularity with American readers and their usefulness as texts in classes on Chinese and comparative literature. These unabridged translations include all the poetry that is scattered throughout the original stories, as well as Feng Menglong's interlinear and marginal comments, which point out what seventeenth-century readers of the stories were being asked to appreciate. **Marine Debris Sources, Impacts, and Solutions** *Springer Science & Business Media* Marine debris is a global pollution problem affecting marine life, maritime commerce and environmental quality. Scientists, policymakers and the public must be knowledgeable about the source, impact and control efforts if effective solutions are to be developed. Marine Debris addresses the origin of persistent solid waste in the ocean, from urban and rural discharges to waste from ships and the recreational use of oceans. The book identifies key issues from biological, technological, economic and legal perspectives, and gives a framework for controlling each of the main sources of marine debris. **Wild Colonial Boy Tales of a Kung Fu Cop** *Austin Macauley* This autobiographical novel narrates the journey of Dan Docherty, a young Glasgow law graduate and karate black belt, who left his traditional Catholic family in 1975 to serve in the notoriously corrupt Royal Hong Kong Police. In Hong Kong, he learned Chinese language intensively, then drill, musketry and law. A famous Tai Chi master accepted him as a disciple and trained him to become an international full contact champion. In this book we'll have a few beers with colourful characters like Big Don and Mountie Dave. We'll visit exotic locales--Manila, Macao, Singapore... We'll witness Dan in full contact competition and in street fight action. As they say in the Hong Kong Police, "If you can't take a joke, you shouldn't have joined." **New Trends in Green Chemistry** *Springer Science & Business Media* Organic chemistry has played a vital role in the development of diverse molecules which are used in medicines, agrochemicals and polymers. Most ofthe chemicals are produced on an industrial scale. The industrial houses adopt a synthesis for a particular molecule which should be cost-effective. No attention is paid to avoid the release of harmful chemicals in the atmosphere, land and sea. During the past decade special emphasis has been made towards green synthesis which circumvents the above problems. Prof. V. K. Ahluwalia and Dr. M. Kidwai have made a sincere effort in this direction. This book discusses the basic principles of green chemistry incorporating the use of green reagents, green catalysts, phase transfer catalysis, green synthesis using microwaves, ultrasound and biocatalysis in detail. Special emphasis is given to liquid phase reactions and organic synthesis in the solid phase. I must congratulate both the authors for their pioneering efforts to write this book. Careful selection of various topics in the book will serve the rightful purpose for the chemistry community and the industrial houses at all levels. PROF. JAVED IQBAL, PhD, FNA Distinguished Research Scientist & Head Discovery Research Dr. Reddy's Laboratories Ltd. **Recent Developments and Applications of Modern Density Functional Theory** *Elsevier* The present status of Density Functional Theory (DFT), which has evolved as the main technique for the study of matter at the atomistic level, is described in this volume. Knowing the behavior of atoms and molecules provides a sure avenue for the design of new materials with specific features and properties in many areas of science and technology. A technique based on purely first principles allowing large savings in time and money greatly benefits the specialist or designer of new materials. The range of areas where DFT is applied has expanded and continues to do so. Any area where a molecular system is the center of attention can be studied using DFT.The scope of the 22

chapters in this book amply testifies to this. **Computational Methods for Large Systems Electronic Structure Approaches for Biotechnology and Nanotechnology** *John Wiley & Sons* While its results normally complement the information obtained by chemical experiments, computer computations can in some cases predict unobserved chemical phenomena Electronic-Structure Computational Methods for Large Systems gives readers a simple description of modern electronic-structure techniques. It shows what techniques are pertinent for particular problems in biotechnology and nanotechnology and provides a balanced treatment of topics that teach strengths and weaknesses, appropriate and inappropriate methods. It's a book that will enhance the your calculating confidence and improve your ability to predict new effects and solve new problems. **MICRO 2016: Fate and Impact of Microplastics in Marine Ecosystems From the Coastline to the Open Sea** *Elsevier* Fate and Impact of Microplastics in Marine Ecosystems: From the Coastline to the Open Sea brings together highlights from the conference proceedings for MICRO 2016: Fate and Impact of Microplastics in Marine Ecosystems: From the Coastline to the Open Sea. While the presence of microplastics in ecosystems has been reported in the scientific literature since the 1970's, many pressing questions regarding their impacts remain unresolved. This short format title draws from the shared scientific and technical material and summarizes the current research and future outlook. Includes a range of topics, from macro- to microplastics Presents data from source to sink, including occurrence and distribution of microplastics in freshwater bodies, coastal zones, and the open ocean Presents the impacts of microplastics on marine life as well as microplastics as vectors of biological and chemical contaminants Provides important analysis on solutions and next steps **Japanese Cinema Goes Global Filmworkers' Journeys** *Hong Kong University Press* Japan's film industry has gone through dramatic changes in recent decades, as international consumer forces and transnational talent have brought unprecedented engagement with global trends. With careful research and also unique first-person observations drawn from years of working within the international industry of Japanese film, the author aims to examine how different generations of Japanese filmmakers engaged and interacted with the structural opportunities and limitations posed by external forces, and how their subjectivity has been shaped by their transnational experiences and has changed as a result. Having been through the globalization of the last part of the twentieth century, are Japanese themselves and overseas consumers of Japanese culture really becoming more cosmopolitan? If so, what does it mean for Japan's national culture and the traditional sense of national belonging among Japanese people? **Empty Force The Power of Chi for Self-Defense and Energy Healing** *Blue Snake Books* Ling Kong Jing, the "Empty Force," is the highest martial arts skill in China. This extraordinary technique harnesses the power of chi, the body's vital energy, enabling masters of the art to defend themselves against opponents without making physical contact. The book takes readers step by step from theory to the actual practice used to generate Empty Force, and shows how to use its remarkable power for healing as well as self-defense. **The Terrestrial Environment, B** *Elsevier* Handbook of Environmental Isotope Geochemistry, Volume 2: The Terrestrial Environment, B focuses on the processes, methodologies, principles, and approaches involved in isotope geochemistry. The selection first elaborates on mathematical models for the interpretation of environmental radioisotopes in groundwater systems; isotopes in cloud physics; and environmental isotopes in lake studies. Discussions focus on water balance studies of lakes, isotopic fractionations during evaporation of water, study of hailstone growth mechanisms by means of isotopic analyses, isotopic effects during growth of individual elements, and models and their hydrological significance. The text then takes a look at environmental isotope and anthropogenic tracers of lake sedimentation; stable isotope geochemistry of travertines; and isotope geochemistry of carbonates in the weathering zone. Topics include isotopic composition of carbonates in the weathering zone; reprecipitation processes in the weathering zone; isotopic composition of carbon and oxygen sources in the weathering zone; and geochemical conditions controlling travertine deposition. The manuscript also reviews radioactive noble gases in the terrestrial environment, isotope effects of nitrogen in the soil and biosphere, and oxygen and hydrogen isotope geochemistry of deep basin brines. The selection is a vital source of data for researchers interested in isotope geochemistry. **Climatic Variations and Forcing Mechanisms of the Last 2000 Years** *Springer Science & Business Media* A profound knowledge of the past climate is vital for our understanding of global warming. The past 2000 years are both the period which is of most relevance to the next century and that for which there is the most evidence. High-resolution proxy records for this period are available from a variety of sources. Five sections consider dendroclimatology, ice cores, corals, historical records, lake varves, and other indicators. The final two sections cover the histories of various forcing factors and attempt to bring together records from a variety of sources and provide explanations. **Chinese Art of T'Ai Chi Ch'Uan** *Twayne Publishers* **The Golgi Apparatus** *Birkhäuser* In 1898 Camillo Golgi reported his newly observed intracellular structure, the apparato reticolare interno, now universally known as the Golgi Apparatus. The method he used was an ingenious histological technique (La reazione nera) which brought him fame for the discovery of neuronal networks and culminated in the award of the Nobel Prize for Physiology and Medicine in 1906. This technique, however, was not easily reproducible and led to a long-lasting controversy about the reality of the Golgi apparatus. Its identification as a ubiquitous organelle by electron microscopy turned out to be the breakthrough and incited an enormous wave of interest in this organelle at the end of the sixties. In recent years immunochemical techniques and molecular cloning approaches opened up new avenues and led to an ongoing resurgence of interest. The role of the Golgi apparatus in modifying, broadening and refining the structural information conferred by transcription/translation is now generally accepted but still incompletely understood. During the coming years, this topic certainly will remain center stage in the field of cell biology. The centennial of the discovery of this fascinating organelle prompted us to edit a new comprehensive book on the Golgi apparatus whose complexity necessitated the contributions of leading specialists in this field. This book is aimed at a broad readership of glycobiologists as well as cell and molecular biologists and may also be interesting for advanced students of biology and life sciences. **Illusory Abiding The Cultural Construction of the Chan Monk Zhongfeng Mingben** *BRILL* A groundbreaking monograph on Yuan dynasty Buddhism, Illusory Abiding offers a cultural history of Buddhism through a case study of the eminent Chan master Zhongfeng Mingben. Natasha Heller demonstrates that Mingben, and other monks of his stature, developed a range of cultural competencies through which they navigated social and intellectual relationships. They mastered repertoires internal to their tradition—for example, guidelines for monastic life—as well as those that allowed them to interact with broader elite audiences, such as the ability to compose verses on plum blossoms. These cultural exchanges took place within local, religious, and social networks—and at the same time, they comprised some of the very forces that formed these networks in the first

place. This monograph contributes to a more robust account of Chinese Buddhism in late imperial China, and demonstrates the importance of situating monks as actors within broader sociocultural fields of practice and exchange. **Microplastic Contamination in Aquatic Environments An Emerging Matter of Environmental Urgency** *Elsevier* Microplastic Contamination in Aquatic Environments: An Emerging Matter of Environmental Urgency comprehensively illustrates the traditional and advanced technologies on sampling, identification and quantification of microplastic from different environmental media. Contributors summarize and discuss recent research on microplastic and examine studies on nano-sized plastic particles. Chapters cover a full range of microplastic research, including global distribution, detection, environmental fate, biological effects and political legislation. Users will find the book to be a comprehensive overview of microplastic research that is ideal for research and understanding on the occurrence of microplastic in aquatic environments. Provides an overview of the advantages and disadvantages of different methods for sampling, identification and enumeration of microplastics Contains contributions from world experts with a diverse range of backgrounds, all brought together by a well-known, experienced editor Presents information on microplastics in a unified place, with easy access for the reader **Catalysis by Gold** *World Scientific* Gold has traditionally been regarded as inactive as a catalytic metal. However, the advent of nanoparticulate gold on high surface area oxide supports has demonstrated its high catalytic activity in many chemical reactions. Gold is active as a heterogeneous catalyst in both gas and liquid phases, and complexes catalyse reactions homogeneously in solution. Many of the reactions being studied will lead to new application areas for catalysis by gold in pollution control, chemical processing, sensors and fuel cell technology. This book describes the properties of gold, the methods for preparing gold catalysts and ways to characterise and use them effectively in reactions. The reaction mechanisms and reasons for the high activities are discussed and the applications for gold catalysis considered. Contents:Introduction to CatalysisThe Physical and Chemical Properties of GoldPhysical Properties and Characterisation of Small Gold ParticlesPreparation of Supported Gold CatalystsChemisorption of Simple Molecules on GoldOxidation of Carbon MonoxideThe Selective Oxidation of Carbon MonoxideSelective OxidationReactions Involving HydrogenThe Water–Gas ShiftReactions of Environmental ImportanceCatalysis by Soluble and Supported Gold CompoundsMiscellaneous Reactions Catalysed by GoldCommercial Applications Readership: Postgraduate level researchers in academia and industry, as well as general readers. Keywords:Gold;Catalysis;Metallic Gold;Nanoparticles;Chemical ProcessingKey Features:The first book to be entirely devoted to reactions catalysed by goldWritten by authors who have extensive practical experience of gold catalysisCoverage of both homogeneous and heterogeneous catalysis by gold and its compoundsReviews:“Catalysis by Gold is a book of great cultural relevance combined with a simple and pleasant reading. Certainly, it is an appropriate time in the remarkable progress of gold catalysis for the first comprehensive review of the subject. This excellent book should be essential reading for all those working in gold catalysis or seeking to exploit it — research students, industrialists, etc. — as well as for those working generally in the catalysis field.”Gold Bulletin **The Multilingual Internet Language, Culture, and Communication Online** *Oxford University Press* Devoted to analysing internet related CMC in languages other than English, this volume collects 18 new articles on facets of language and internet use, all of which revolve around several central topics: writing systems, the structure and features of local languages and how they affect internet use, gender issues, and so on. **Corals and Coral Reefs of the Galápagos Islands** *Univ of California Press* 00 This scientifically thorough,lucidly written work explores the nature, development, and extent of the archipelago's reef-building corals. Also included is an annotated list of the Scleractianian Corals by John W. Wells This scientifically thorough,lucidly written work explores the nature, development, and extent of the archipelago's reef-building corals. Also included is an annotated list of the Scleractianian Corals by John W. Wells **Science Citation Index** Vols. for 1964- have guides and journal lists. **Deep Learning with Keras** *Packt Publishing Ltd* Get to grips with the basics of Keras to implement fast and efficient deep-learning models About This Book Implement various deep-learning algorithms in Keras and see how deep-learning can be used in games See how various deep-learning models and practical use-cases can be implemented using Keras A practical, hands-on guide with real-world examples to give you a strong foundation in Keras Who This Book Is For If you are a data scientist with experience in machine learning or an AI programmer with some exposure to neural networks, you will find this book a useful entry point to deep-learning with Keras. A knowledge of Python is required for this book. What You Will Learn Optimize step-by-step functions on a large neural network using the Backpropagation Algorithm Fine-tune a neural network to improve the quality of results Use deep learning for image and audio processing Use Recursive Neural Tensor Networks (RNTNs) to outperform standard word embedding in special cases Identify problems for which Recurrent Neural Network (RNN) solutions are suitable Explore the process required to implement Autoencoders Evolve a deep neural network using reinforcement learning In Detail This book starts by introducing you to supervised learning algorithms such as simple linear regression, the classical multilayer perceptron and more sophisticated deep convolutional networks. You will also explore image processing with recognition of hand written digit images, classification of images into different categories, and advanced objects recognition with related image annotations. An example of identification of salient points for face detection is also provided. Next you will be introduced to Recurrent Networks, which are optimized for processing sequence data such as text, audio or time series. Following that, you will learn about unsupervised learning algorithms such as Autoencoders and the very popular Generative Adversarial Networks (GAN). You will also explore non-traditional uses of neural networks as Style Transfer. Finally, you will look at Reinforcement Learning and its application to AI game playing, another popular direction of research and application of neural networks. Style and approach This book is an easy-to-follow guide full of examples and real-world applications to help you gain an in-depth understanding of Keras. This book will showcase more than twenty working Deep Neural Networks coded in Python using Keras.