

Seo 2018 The New Era Of Seo The Most Effective Strategies For Ranking 1 On Google In 2018 The New Era Of Internet Marketing

This book presents a comprehensive overview of the fundamental concept, design, working protocols, and diverse photo-chemicals aspects of different solar cell systems with promising prospects, using computational and experimental techniques. It presents and demonstrates the art of designing and developing various solar cell systems through practical examples. Compared to most existing books in the market, which usually analyze existing solar cell approaches this volume provides a more comprehensive view on the field. Thus, it offers an in-depth discussion of the basic concepts of solar cell design and their development, leading to higher power conversion efficiencies. The book will appeal to readers who are interested in both fundamental and application-oriented research while it will also be an excellent tool for graduates, researchers, and professionals working in the field of photovoltaics and solar cell systems.

This book examines media coverage and public diplomacy regarding the North Korea nuclear controversy, with a focus on the history of military and diplomatic efforts to resolve tensions on the Korean Peninsula. Chapters consider both legacy and social media coverage in the United States, South Korea, Japan, and China, as well as the power of visual images and the role of military and hard power in shaping public understanding and events in the region.

This book applies cutting-edge economic analysis and social science to unpack the rich complexities and paradoxes of the Fourth Industrial Revolution. The book takes the reader on a bold, refreshing, and informative tour through its technological drivers, its profound impact on human ecosystems, and its potential for sustainable human development. The overarching message to the reader is that the Fourth Industrial Revolution is not merely something to be feared or survived; rather, this dramatic collision of technologies, disciplines, and ideas presents a magnificent opportunity for a generation of new pioneers to rewrite "accepted rules" and find new avenues to empower billions of people to thrive. This book will help readers to discern the difference between disruption and transformation. The reader will come away from this book with a deeply intuitive and highly contextual understanding of the core technological advances transforming the world as we know it. Beyond this, the reader will clearly appreciate the future impacts on our economies and social structures. Most importantly, the reader will receive an insightful and actionable set of guidelines to assist them in harnessing the Fourth Industrial Revolution so that both they and their communities may flourish. The authors do not primarily seek to make prescriptions for government policy, but rather to speak directly to people about what they can do for themselves, their families, and their communities to be future-proofed and ready to adapt to life in a rapidly evolving world ecosystem.

What was it like to travel while Black under Jim Crow? Mia Bay brings this dramatic history to life. With gripping stories and a close eye on the rail, bus, and airline operators who implemented segregation, she shows why access to unrestricted mobility has been central to the Black freedom struggle since Reconstruction and remains so today.

This comprehensive multidisciplinary book examines all aspects of cancers of the mouth and oropharynx with the aim of equipping advanced students and practitioners in the early stages of specialist training with an up-to-date guide and reference. A multinational team of authors – all experts in the field of oral oncology – provide illuminating contributions on the full range of relevant topics: epidemiology, risk factors, clinical features, staging and prognostic factors, pathology, diagnostic techniques, disease prevention, surgery, radiotherapy, and chemotherapy. Molecular biology, molecular targeted therapies for advanced cases, and future diagnostic and prognostic applications of new technologies also receive careful attention. In providing a wealth of essential information and guidance in a practical format, the book will be a superb asset for senior graduate students in dentistry and specialist trainees in head and neck oncology. It will also be of high value for the many physicians, surgeons, pathologists, dentists, and specialists involved in the prevention, diagnosis, and management of squamous cell carcinomas of the oral cavity and oropharynx.

In January 2016, Taiwan's former authoritarian ruler, the KMT, the Nationalist Party of China, lost control of both the presidency and the legislature. Having led the democratization process in Taiwan during the 1980s, it maintained a winning coalition among big business, the public sector, green-collar workers and local factions. Until now. A New Era in Democratic Taiwan identifies past, present and future trajectories in party politics and state-society relations in Taiwan. Providing a comprehensive examination of public opinion data, it sheds light on significant changes in the composition of political attitudes among the electorate. Through theoretical and empirical analyses, this book also demonstrates the emergence of a 'new' Taiwanese identity during the transition to democracy and shows how a diffusion of interests in society has led to an opening for niche political organizations. The result, it argues, is a long-term challenge to the ruling parties. As the first book to evaluate Taiwan's domestic and international circumstances after Tsai's election in 2016, this book will be useful for students and scholars of Taiwan Studies and cross-Strait relations, as well as Asian politics more generally.

The Emerald Handbook of Digital Media in Greece: Journalism and Political Communication in Times of Crisis presents the empirical applications of digital media in political communication and in a number of social settings including the environment, homelessness, migration and social movements.

Separation science plays a critical role in maintaining our standard of living and quality of life. Many industrial processes and general necessities such as chemicals, medicines, clean water, safe food, and energy sources rely on chemical separations. However, the process of chemical separations is often overlooked during product development and this has led to inefficiency, unnecessary waste, and lack of consensus among chemists and engineers. A reevaluation of system design, establishment of standards, and an increased focus on the advancement of separation science are imperative in supporting increased efficiency, continued U.S. manufacturing competitiveness, and public welfare. A Research Agenda for Transforming Separation Science explores developments in the industry since the 1987 National Academies report, Separation and Purification: Critical Needs and Opportunities. Many needs stated in the original report remain today, in addition to a variety of new challenges due to improved detection limits, advances in medicine, and a recent emphasis on sustainability and environmental stewardship. This report examines emerging chemical separation technologies, relevant developments in intersecting disciplines, and gaps in existing research, and provides recommendations for the application of improved separation science technologies and processes. This research serves as a foundation for transforming separation science, which could reduce global energy use, improve human and environmental health, and advance more efficient practices in various industries.

Provides an international and management perspective on the field of corporate communication Corporate communication plays an important role in higher-level management to help build and preserve a company's reputation. This intangible yet valuable asset determines the net worth of a company and affects the success of its operations. Corporate Communication: An International and Management Perspective introduces readers to the broad environment of the modern extended organization and provides an understanding of the globalization process. It describes how economic, political, and cultural features of a country affect company decisions and communication and discusses various communication disciplines and practices that are employed in programs and campaigns. This book addresses the key management issues of sustainability and technology and innovation. It also emphasizes the importance of why corporate communication must be seen as a management function and not restricted to a communication process. Presented in five parts, Corporate Communication offers comprehensive chapters covering: The Domain of Corporate Communication; Strategic Application of Communication Practices; International Perspective; Key Management Issues of Sustainability and Technology;

and Corporate Communication Contribution to Management. The foundation of Corporate Communication is public relations but also included is the entire range of communication practices and the contribution to management decision making. Conceptualizes corporate communication as a strategic management function which helps management recognize, adjust to, and construct policy related to global issues Emphasizes the critical role that corporate communication plays in making corporate decisions and behaviors more socially responsible and sustainable Demonstrates how corporate communication draws on public affairs, marketing and social media in its strategic planning Emphasizes the critical importance of relationships to corporations and their effect on reputation Provides numerous examples of cases of global problems and how corporations have responded to them Corporate Communication is intended for upper-level undergraduate and graduate students in schools of communication and schools of business and management who want to extend their competence to the global arena and to combine the various communication practices to design strategic programs and campaigns. Course titles include corporate communication, international public relations, corporate public affairs, global marketing communication, global corporate communication, and social media.

This book considers both Koreas - North Korea and South Korea - to examine possible pathways for the years leading up to 2032 and beyond, thus offering a composite picture of Korea and its strategic relevance in Asia and the world at large. Through a combined South-North Olympic team and an effort of jointly hosting the Games, Republic of Korea president Moon Jae-in has marked the year 2032 as special in the future of the Korean Peninsula. Although the International Olympic Committee (IOC) has expressed scepticism about a combined hosting of the Games, the expectation in Korea is that this event will underline the shared destiny of the people inhabiting the peninsula and realign two states still caught in an ideologically fraught civil conflict that is one of the last vestiges of the Cold War. Chapters begin with a brief historical review and analysis of the present, before moving to consider how these will shape the next decade, drawing comparative and complementary analyses. No matter how contrasting the contemporary trajectories of both North and South Korea might appear, 'Korea' as a singular entity is an old concept still containing great possibilities. As the ongoing inter-Korean reconciliation process underscores, the futures of North and South Korea can be found in a complementary singular Korea, which would again represent an important political, strategic, cultural, and social space in Asia. An evaluation of the future trajectory, social awareness and perception of the Koreas, this book offers a valuable contribution to the study of North and South Korea and Asian Politics.

New York City's water supply system is one of the oldest, largest, and most complex in the nation. It delivers more than 1.1 billion gallons of water each day from three upstate watersheds (Croton, Catskill, and Delaware) to meet the needs of more than eight million people in the City, one million people in Westchester, Putnam, Orange, and Ulster counties, and millions of commuters and tourists who visit the City throughout the year. The Catskill and Delaware portions, which make up about 90 percent of the supply, receive no filtration or treatment other than disinfection, except for rare instances of high turbidity when a coagulant is added to increase deposition of suspended solids. The remaining 10 percent of the supply comes from the Croton watershed and receives treatment via filtration. The drinking water supply is managed by the Bureau of Water Supply within the New York City Department of Environmental Protection (NYC DEP). To continue to avoid filtration of the Catskill/Delaware portion of the water supply, in 2007, NYC DEP reexamined its control of turbidity in the Catskill portion of the water supply, including both structural improvements to the system and operational changes. The Operations Support Tool (OST) was developed as part of these efforts. OST couples models of reservoir operations and water quality; it uses real-time data on streamflow, snow pack, water quality, reservoir levels, diversions, and releases; and it incorporates streamflow forecasts—all in order to predict future reservoir levels, water delivery to customers, and water quality within the system. These predictions inform the system operators, who then make decisions based on the most current data and forecasts. This report reviews the use of OST in current and future reservoir operations. It considers potential ways in which the City can more effectively use OST, makes recommendations for additional performance measures, and reviews the potential effects of climate change on the City's water supply to help identify and enhance understanding of areas of potential future concern with regard to the use of OST.

This book investigates the drivers, tactics, and strategy that propel the Trump administration's foreign policy. The key objective of this book is to look beyond the 'noise' of the Trump presidency in order to elucidate and make sense of contemporary US foreign policy. It examines the long-standing convictions of the president and the brutal worldview that he applies to US foreign policy; and his hard-line negotiation tactics and employment of unpredictability to keep America's major foreign interlocutors off-guard, such as NATO members, China, Mexico, Canada, North Korea, and Iran – each of which are considered here. In strategy terms, the book explains that the president is responding to a new multipolar structure of power by engaging a Kissingerian strategy that eschews liberal values and seeks to adjust great power relations in Washington's favor. By drawing upon a range of evidence and case studies, this book makes a number of compelling and provocative points to offer a new vector for debate about the workings, successes and failures, and ultimately the long-term implications for the world, of the Trump presidency. This book will be of much interest to students of US foreign policy, security studies, and IR in general.

A guide to one of the most important aspects for affordable and highly efficient dye-sensitized solar cells Dye-sensitized solar cells have the potential to be one of the most promising photovoltaic technologies for production of renewable and clean energy. Counter Electrodes for Dye-Sensitized and Perovskite Solar Cells offers an introduction to the various types of counter electrode catalysts for dye-sensitized solar cells and perovskite solar cells, including metal and metal compounds, carbon materials, polymers, and composites. With contributions from an international panel of experts, the book contains a discussion of the design and synthesis of the catalysts, characterization and stability of the devices, as well as calculations on properties. The contributors cover a wide range of topics including information on: carbon nanotubes electrocatalysts for I-mediated dye-sensitized solar cells; Pt-loaded composite electrocatalysts for I-mediated dye-sensitized solar cells; metal contact electrodes for perovskite solar cells; and much more. The book also includes insight into the future developments in the field. This important resource Covers the various types of counter electrode catalysts and presents design strategies, synthesis methods, theoretical calculation and stability evaluation Includes information on low-cost counter electrode catalysts and commercial applications of dye-sensitized sensitized solar cells Discusses how electrode catalysts can be applied in a range of fields, such as solar cells, fuel cells, hydrogen production, and photocatalysis Offers contributions from leading experts in the field including Anders Hagfeldt, one of the world's leading researchers in this field Written for materials scientists, solid state chemists, electrochemists, catalytic chemists, solid state physicists, and chemical industry professionals, Counter Electrodes for Dye-Sensitized and Perovskite

Solar Cells is a comprehensive and authoritative guide to dye-sensitized solar cells.

SEO 2018 - the New Era of SEO The Most Effective Strategies for Ranking #1 on Google In 2018

In Twenty-First Century Workplace Challenges, Edna Rabenu examines shifting psychological relationships in the workplace. Rabenu debates a plethora of issues pertinent to employees, workers, managers, and organizations, offering timely recommendations on how organizations should respond to new developments.

Learn from the leading resource on the latest inbound marketing techniques As the SEO industry undergoes a shift and Google continues to change its algorithm, successful SEO practitioners need to increase their knowledge of a wide range of inbound marketing channels. The Moz Blog is the go-to place for the latest thought leadership on the shifts in inbound marketing and SEO. This book cherry-picks and updates the most popular articles for the key inbound marketing disciplines, mixing them with some brand-new essays. Rand Fishkin and Thomas Høgenhaven have produced a masterfully edited anthology packed with information to provide the best possible insight into these marketing channels. The popular Moz blog is a top resource for cutting-edge information on SEO techniques: Co-compiled and co-edited by Moz CEO and co-founder Rand Fishkin, this book is an anthology of articles selected to provide the best possible overview of current SEO and inbound marketing techniques and trends Covers channels of online marketing, content marketing, social media, outreach, conversion rate optimization, and analytics, as well as search engine optimization Focuses on leveraging existing platforms like social media sites and community for inbound marketing success Inbound Marketing and SEO is a must-have for marketers in today's online world.

Building the Future of Food Safety Technology: Blockchain and Beyond focuses on evaluating, developing, testing and predicting Blockchain's impact on the food industry, the types of regulatory compliance needed, and other topics important pertaining to consumers. Blockchain is a technology that can be used to record transactions from multiple entities across a complex network. A record on a blockchain cannot be altered retroactively without the alteration of all preceding blocks and the consensus of the network. Blockchain is often associated with cryptocurrency, but it is being looked at more and more as a solution to food-supply problems. Presents the latest information on Blockchain's impact in the food industry Bridges food technology and food safety Provides guidance and expert insights on the food supply chain

This textbook provides a broad introduction to the relationship between climate change, economics, and climate policy for young readers and future generations. It highlights the problem of intergenerational gaps and burden sharing on climate change. Taking on major contentious issues of today, it is rich with behavioural strategies and real life experiences which are explained in an accessible and engaging way. A diverse range of topics are covered, including farm animals of Sub-Sahara, Latin American rainforests, Indian monsoon agriculture, tropical cyclones in Bangladesh, sublime grasslands, energy revolutions, hydroelectric dams of China, backstop technologies, ocean exchanges with the atmosphere, mass extinction of species, commercial fisheries, infectious diseases and pandemics, and a climate policy big deal. Climate Change and Economics: Engaging with Future Generations with Action Plans aims to engage with young readers and offer action plans for activists. It is relevant to students interested in environmental economics and environmental science. .

Reviews recent advances in catalytic biodiesel synthesis, highlighting various nanocatalysts and nano(bio)catalysts developed for effective biodiesel production Nano- and Biocatalysts for Biodiesel Production delivers an essential reference for academic and industrial researchers in biomass valorization and biofuel industries. The book covers both nanocatalysts and biocatalysts, bridging the gap between homogenous and heterogenous catalysis. Readers will learn about the techno-economical and environmental aspects of biodiesel production using different feedstocks and catalysts. They will also discover how nano(bio)catalysts can be used as effective alternatives to conventional catalysts in biodiesel production due to their unique properties, including reusability, high activation energy and rate of reaction, easy recovery, and recyclability. Readers will benefit from the inclusion of: Introductions to CaO nanocatalysts, zeolite nanocatalysts, titanium dioxide-based nanocatalysts and zinc-based in biodiesel production An exploration of carbon-based heterogeneous nanocatalysts for the production of biodiesel Practical discussions of bio-based nano catalysts for biodiesel production and the application of nanoporous materials as heterogeneous catalysts for biodiesel production An analysis of the techno-economical considerations of biodiesel production using different feedstocks Nano- and Biocatalysts for Biodiesel Production focuses on recent advances in the field and offers a complete and informative guide for academic researchers and industrial scientists working in the fields of biofuels and bioenergy, catalysis, biotechnology, bioengineering, nanotechnology, and materials science.

Pediatric Surgery, Flowcharts and Clinical Algorithms is an updated review of some common pediatric surgical problems. The authors of the chapters have made a full review of the selected topics including the basic science facts necessary for the proper understanding of conditions (anatomy, physiology and embryology), such as gastrointestinal disorders, abdominal wall defects, choledochal cysts, and others, with special emphasis on antenatal diagnosis and management. A flow chart (or management algorithm) is included to facilitate decision making in choice of the proper diagnostic tools or the most efficient surgical (or non-surgical) strategy. The book is intended for pediatric surgeons, pediatricians, and researchers in any of the topics included.

Discover the most cutting-edge developments in the study of graphdiyne from a pioneer of the field In Graphdiyne: Fundamentals and Applications in Renewable Energy and Electronics, accomplished chemist Dr. Yuliang Li delivers a practical and insightful compilation of theoretical and experimental developments in the study of graphdiyne. Of interest to both academics and industrial researchers in the fields of nanoscience, organic chemistry, carbon science, and renewable energies, the book systematically summarizes recent research into the exciting new material. Discover information about the properties of graphdiyne through theoretical simulations and experimental characterizations, as well as the development of graphdiyne with appropriate preparation technology. Learn to create new graphdiyne-based materials and better understand its intrinsic properties. Find out about synthetic methodologies, the controlled growth of aggregated state structures, and structural characterization. In addition to demonstrating the interdisciplinary potential and relevance of graphdiyne, the book also offers readers: A thorough introduction to basic structure and band gap engineering, including molecular and electronic structure, mechanical properties, and the layers structure of bulk graphdiyne Explorations of Graphdiyne synthesis and characterization, including films, nanotube arrays and nanowires, nanowalls, and nanosheets, as well as characterization methods Discussions of the functionalization of graphdiyne, including heteroatom doping, metal decoration, and absorption of guest molecules Rigorous treatments of Graphdiyne-based materials in catalytic applications, including photo- and electrocatalysts Perfect for organic chemists, electronics engineers, materials scientists, and physicists, Graphdiyne: Fundamentals and Applications in Renewable Energy and Electronics will also find its place on the bookshelves of surface and solid-state chemists, electrochemists, and catalytic chemists seeking a one-stop reference on this rising-star carbon material.

Meet the newest workbook for SEO marketing 2018 Based upon the book's ideas you will certainly feel confident forming your own SEO methodologies and strategies at the end-- either for your personal applications or using them for your clients-- upon answering to the following questions: - What could or should be the most probable previews for SEO 2018?- What shall be the principal strategies you might

be focusing upon?- How shall you build and develop your personal marketing strategies vis-à-vis the constant evolution of Google search and its latest innovations?- What could be certain features or aspects that could probably disrupt, or influence considerably in the era of SEO 2018? Want to raise your BUSINESS with SEO right now? Scroll to the top of this page and click BUY NOW button!

This Research Topic features recent developments in the field of regulatory peptide physiology and peptide-based therapeutics.

From traditional brick and mortar to new start-ups, businesses are harnessing the power of digital enterprise as a cost-effective model to deliver goods and services online. Digital enterprise strategy is adopted for transforming business, streamlining processes, and making the best use of online technologies to enhance interaction with customers and employees and deliver excellent customer experience in real time. Digital enterprises increasingly need digital workers to establish greater digital skills to bear on every activity and to drive management, strategy, and innovation, which are key for digital enterprise transformation. The Handbook of Research on Management and Strategies for Digital Enterprise Transformation is a crucial reference source that discusses leveraging technology for the customers', employees', and suppliers' benefit, as well as integrating complex processes to management, marketing, production, manufacturing, and financial systems. Combining management, strategy, technology, and digital enterprise topics into one book provides the reader with a holistic understanding of the new developments in these emerging fields. This study will also include key topics of interest on how to address structural changes underway in the local and global business environment for digital enterprise transformation. Featuring research on topics such as e-commerce, organizational learning, and agile management, this book is ideally designed for business professionals, policymakers, researchers, students, and managers.

ISBN: 978-625-7280-83-9 e- ISBN: 978-625-7280-84-6

The Discourse of Customer Service Tweets studies the discursive and pragmatic features of customer service interactions, making use of a corpus of over 1.5 million tweets from more than thirty different companies. With Twitter being used as a professional service channel by many transport operators, this book features an empirical analysis of British and Irish train companies and airlines that provide updates and travel assistance on the platform, often on a 24/7 basis. From managing crises in the midst of strike action to ensuring passengers feel comfortable on board, Twitter allows transport operators to communicate with their customers in real time. Analysing patterns of language use as well as platform specific features for their communicative functions, Ursula Lutzky enhances our understanding of customers' linguistic expectations on Twitter and of what makes for successful or unsuccessful interaction. Of interest to anyone researching discourse analysis, business communication and social media, this book's findings pave the way for practical applications in customer service.

This book focuses on corrosion and microbial corrosion, providing solutions for these problems based on nanotechnology and nanobiotechnology. It introduces the causes, consequences, cost and control of corrosion processes. It gives a particular emphasis on microbial corrosion of steel and other metals in oil, gas and shipping industries. The book presents the materials vulnerable to such kind of corrosion, and the use of nanomaterials to control it.

This book analyses and discusses current issues and trends in finance with a special focus on technological developments and innovations. The book presents an overview of the classical and traditional approaches of financial management in companies and discusses its key strategic role in corporate performance. Furthermore, the volume illustrates how the emerging technological innovations will shape the theory and practice of financial management, focusing especially on the decentralized financial ecosystems that blockchain and its related technologies allow.

This book presents the combined proceedings of the 10th International Conference on Computer Science and its Applications (CSA 2018) and the 13th KIPS International Conference on Ubiquitous Information Technologies and Applications (CUTE 2018), both held in Kuala Lumpur, Malaysia, Dec 17 - 19, 2018. The aim of these two meetings was to promote discussion and interaction among academics, researchers and professionals in the field of ubiquitous computing technologies. These proceedings reflect the state of the art in the development of computational methods, involving theory, algorithms, numerical simulation, error and uncertainty analysis and novel applications of new processing techniques in engineering, science, and other disciplines related to ubiquitous computing.

This Special Issue book focuses on the theory and practice of search engine optimization (SEO). It is intended for anyone who publishes content online and it includes five peer-reviewed papers from various researchers. More specifically, the book includes theoretical and case study contributions which review and synthesize important aspects, including, but not limited to, the following themes: theory of SEO, different types of SEO, SEO criteria evaluation, search engine algorithms, social media and SEO, and SEO applications in various industries, as well as SEO on media websites. The book aims to give a better understanding of the importance of SEO in the current state of the Internet and online information search. Even though SEO is widely used by marketing practitioners, there is a relatively small amount of academic research that systematically attempts to capture this phenomenon and its impact across different industries. Thus, this collection of studies offers useful insights, as well as a valuable resource that intends to open the door for future SEO-related research.

You will be surprised how easy it is to increase sales by 7-10 times using social networks! After reading this book you will learn: - Which social networks bring the greatest results, - How to increase sales through advertising in social networks, - How to make your brand recognizable through social networks, - How to fill the customer base in a short term, - How to do effective market research and competitor analysis, etc. And also, the book includes a FREE BONUS - "Step-by-step plan how to create your marketing strategy for social networks."

Do you know that SEO can help you rank first on Google? I think you do! But how exactly can the SEO help you? I think you don't know. I think you don't! So don't waste your time on obsolete SEO strategies and SEO tools. This book "SEO 2018. The New Era of SEO" will show in which direction you should move to always be in the first positions. Based

upon the book's ideas you will certainly feel confident forming your own SEO methodologies and strategies at the end-- either for your personal applications or using them for your clients-- upon answering to the following questions: - What could or should be the most probable previews for SEO 2018?- What shall be the principal strategies you might be focusing upon?- How shall you build and develop your personal marketing strategies vis-à-vis the constant evolution of Google search and its latest innovations?- What could be certain features or aspects that could probably disrupt, or influence considerably in the era of SEO 2018? Want to raise your BUSINESS with SEO right now? Scroll to the top of this page and click BUY NOW button!

Bioremediation refers to the clean-up of pollution in soil, groundwater, surface water, and air using typically microbiological processes. It uses naturally occurring bacteria and fungi or plants to degrade, transform or detoxify hazardous substances to human health or the environment. For bioremediation to be effective, microorganisms must enzymatically attack the pollutants and convert them to harmless products. As bioremediation can be effective only where environmental conditions permit microbial growth and action, its application often involves the management of ecological factors to allow microbial growth and degradation to continue at a faster rate. Like other technologies, bioremediation has its limitations. Some contaminants, such as chlorinated organic or high aromatic hydrocarbons, are resistant to microbial attack. They are degraded either gradually or not at all, hence, it is not easy to envisage the rates of clean-up for bioremediation implementation. Bioremediation represents a field of great expansion due to the important development of new technologies. Among them, several decades on metagenomics expansion has led to the detection of autochthonous microbiota that plays a key role during transformation. Transcriptomic guides us to know the expression of key genes and proteomics allow the characterization of proteins that conduct specific reactions. In this book we show specific technologies applied in bioremediation of main interest for research in the field, with special attention on fungi, which have been poorly studied microorganisms. Finally, new approaches in the field, such as CRISPR-CAS9, are also discussed. Lastly, it introduces management strategies, such as bioremediation application for managing affected environment and bioremediation approaches. Examples of successful bioremediation applications are illustrated in radionuclide entrapment and retardation, soil stabilization and remediation of polycyclic aromatic hydrocarbons, phenols, plastics or fluorinated compounds. Other emerging bioremediation methods include electro bioremediation, microbe-aided phytoremediation, genetic recombinant technologies in enhancing plants in accumulation of inorganic metals, and metalloids as well as degradation of organic pollutants, protein-metabolic engineering to increase bioremediation efficiency, including nanotechnology applications are also discussed.

The Special Issue "Plant Proteomics 3.0" was conceived in an attempt to address the recent advancements in as well as limitations of current proteomic techniques and their diverse applications to attain new insights into plant molecular responses to various biotic and abiotic stressors and the molecular bases of other processes. Proteomics' focus is also related to translational purposes, including food traceability and allergen detection. In addition, bioinformatic techniques are needed for more confident identification, quantitation, data analysis and networking, especially with non-model or orphan plants, including medicinal and meditational plants as well as forest tree species. This Special Issue contains 23 articles, including four reviews and 19 original papers.

Global in scope, this original and thought-provoking collection applies new theory on legitimacy and legitimation to urban life. An informed reflection on this comparatively new topic in anthropology in relation to morality, action, law, politics and governance is both timely and innovative, especially as worldwide discontent among ordinary people grows. The ethnographically-based analyses offered here range from banking to neighbourhoods, from poverty to political action at the grassroots. They recognize the growing gap between the rulers and the ruled with particular attention to the morality of what is right as opposed to what is legal. This book is a unique contribution to social theory, fostering discussion across the many boundaries of anthropological and sociological studies.

This book is an up-to-date critical examination of schooling in Japan by an expert in this field. It focuses on developments in the last two decades, with a particular interest in social justice. Japan has experienced slow economic growth, changed employment practices, population decline, an aging society, and an increasingly multi-ethnic population resulting from migration. It has faced a call to respond to the rhetoric of globalization and to concerns in childhood poverty in the perceived affluence. In education we have seen developments responding to these challenges in national and local educational policies, as well as in school-level practices. What are the most significant developments in schooling of the last two decades? Why have these developments emerged, and how will they affect youth and society as a whole? How can we best interpret social justice implications of these developments in terms of both distributive justice and the politics of difference? To what extent have the shifts advanced the interests of disadvantaged groups? This book shows that, compared to three decades ago, the system of education increasingly acknowledges the need to address student diversity of all kinds, and delivers options that are more varied and flexible. But interest in social justice in education has tended to centre on the distribution of education (who gets how much of schooling), with fewer questions raised about the content of schooling that continues to advantage the already advantaged. Written in a highly accessible style, and aimed at scholars and students in the fields of comparative education, sociology of education and Japanese studies, this book illuminates changing policies and cumulative adjustments in the daily practice of schooling, as well as how various groups in society make sense of these changes.

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