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Yu-Gi-Oh! 5D's-Masahiro Hikokubo 2012-02-07 Yusei enrolls in the D1 Grand Prix for a chance to duel Jack Atlas, but he must make it past new rivals and fierce competition before he can reach his nemesis.

Yu-Gi-Oh! 5D's-Masahiro Hikokubo 2015-03-03 In New Domino City, the hottest game in town is the Turbo Duel, fought from blazingly fast motorcycles called Duel Runners. On the outskirts of New Domino City, in a district known as Satellite, a new Turbo Duel hero emerges--Yusei Fudo! On his custom-built Duel Runner, Yusei takes on all challengers, fighting for his friends and the future of Satellite! Rex Goodwin and Jack Atlas reach the end of their epic duel, and Goodwin demonstrates his ancient power. Elsewhere, Crow Hogan has released the other Duelists sealed by Lazar, but it’s too late for them to go to Yusei’s aid now. High in Aerial Fortress Seibal, Yusei battles the Skeleton Knight to reach Sect...!

Yu-Gi-Oh! 5D's-Masahiro Hikokubo 2014-09-02 In New Domino City, the hottest game in town is the Turbo Duel, fought from blazingly fast motorcycles called Duel Runners. On the outskirts of New Domino City, in a district known as Satellite, a new Turbo Duel hero emerges--Yusei Fudo! On his custom-built Duel Runner, Yusei takes on all challengers, fighting for his friends and the future of Satellite! Card included with the first printing only. Goodwin’s plan to revive the Ultimate God moves forward as he sets up a match between Akiza and Sect that mirrors a fateful duel five thousand years ago! Yusei has gathered all the Star Tickets and entered the Duel Gate. Even if he can find his friend Sect, he still has to get past the Skeleton Knight, and if he does, will he have the strength to face the Ultimate God?

Yu-Gi-Oh! 5D's, Vol. 5-Masahiro Hikokubo 2013-11-05 Kalin’s handless combo Type Zero has Jack backed into a corner! However, the King just might have a secret plan for victory. Meanwhile, the Skeleton Knight appears and tells Yusei that Sect is in the aerial fortress beyond the Duel Gate! Can Yusei’s loyalty overcome Sect’s thirst for power and save Sect from the Skeleton Knight? Card included with the first printing only. -- VIZ Media

Yu-Gi-Oh! 5D's, Vol. 1-Masahiro Hikokubo 2012-03-26 A high-speed Turbo Duel through the streets of Satellite brings Yusei Fudo and his friend Sect face-to-face with an urban legend incarnate! Will Yusei lose Sect to the Skeleton Knight? And what sinister plans does Jack Atlas, master of New Domino City, have in store for Yusei? Card included with the first printing only. -- VIZ Media

Yu-Gi-Oh! 5D's, Vol. 3-Masahiro Hikokubo 2012-10-02 Yusei has made it into the second round of the D1 Grand Prix, but his friend Sect has made a dark pact with the ominous Skeleton Knight in exchange for the powerful Shadow Card. Yusei learns that he’ll need a special card to free Sect, and the only way to get it is to win the tournament! Card included with the first printing only. -- VIZ Media

Yu-Gi-Oh! 5D's, Vol. 7-Masahiro Hikokubo 2015-03-03 Rex Goodwin and Jack Atlas reach the end of their epic duel, and Goodwin demonstrates his ancient power. Elsewhere, Crow Hogan has released the other Duelists sealed by Lazar, but it’s too late for them to go to Yusei’s aid now. High in Aerial Fortress Seibal, Yusei battles the Skeleton Knight to reach Sect...! -- VIZ Media

Yu-Gi-Oh! 5D's, Vol. 8-Masahiro Hikokubo 2015-10-06 Yusei and Sect continue their epic duel in Aerial Fortress Seibal. As Sect unleashes a powerful attack, he tells Yusei the Ultimate God is about to return to life. If their friendship is strong enough, they may be able to withstand the Ultimate God’s resurrection—but are their struggles all just part of Goodwin’s plan? -- VIZ Media

Yu-Gi-Oh! 5D's, Vol. 9-Masahiro Hikokubo 2016-04-05 Yusei and Goodwin are locked in their final Duel. Having now harnessed the power of the Ultimate God, Goodwin can turn Yusei’s Duel Dragons against him. The assault may be more than Yusei can bear and he will need his friends’ help to have any chance of winning, but will it be enough? -- VIZ Media

Yu-Gi-Oh! GX, Vol. 4-Naoyuki Kageyama 2012-05-21 The Duel Academy tournament has reached the semifinal round, with the winner getting a chance to take on duel champion Zane "Kaiser" Truesdale. Jaden and Bastion go head to head in an all-out match, followed by Chazz taking on the mysterious David Rabb. The winners of these two matches will face off in the final round of the tournament! But will David Rabb's evil master plan ruin everything? -- VIZ Media

Yu-gi-oh! Millennium World 6-Kazuki Takahashi 2008-01-03 Yugi has gathered all the Egyptian God Cards, and with the Millennium Eye he is now able to unlock his memories of his past life as an Egyptian pharaoh and travel back in time to battle his enemies of the past.

Plant Natural Products for Human Health-Chun-Tao Che 2019-03-21 Plants have served mankind as an important source of foods and medicines. While we all consume plants and their products for nutritional support, a majority of the world population also rely on botanical remedies to meet their health needs, either as their own “traditional medicine” or as “complementary and alternative medicine”. From a pharmaceutical point of view, many compounds obtained from plant sources have long been known to possess bio/pharmacological activities, and historically, plants have yielded many important drugs for human use, from morphine discovered in the early nineteenth century to the more recent paclitaxel and artemisinin. Today, we are witnessing a global resurgence in interest and use of plant-based therapies and botanical products, and natural products remain an important and viable source of lead compounds in many drug discovery programs. This Special Issue on “Plant Natural Products for Human Health” compiles a series of scientific reports to demonstrate the medicinal potentials of plant natural products. It covers a range of disease targets, such as diabetes, inflammation, cancer, neurological disease, cardiovascular disease, liver damage, bacterial, and fungus infection and malarial. These papers provide important insights into the current state of research on drug discovery and new techniques. It is hoped that this Special Issue will serve as a timely reference for researchers and scholars who are interested in the discovery of potentially useful molecules from plant sources for health-related applications.

The Impact of Caffeine and Coffee on Human Health-Christina Bamia 2019-12-12 The purpose of this Special Issue is to provide a thorough and up-to-date presentation of research investigating the impact of coffee and/or caffeine intake on various health outcomes. We welcome the submission of original research articles and/or systematic Reviews/meta-analyses focusing on several aspects of coffee/caffeine intake in relation to human health. Areas of interest include, but are not limited to, the following topics: - Human clinical trials of coffee or caffeine use in relation to disease or intermediate phenotypes. - Epidemiological studies of habitual coffee or caffeine intake in relation to human health, among the general public, as well as, among special populations (i.e., children, pregnant women, diabetics, cancer patients, hypertensives, etc.) - Mechanisms of action of nutrients and other bioactive components of coffee/caffeine. - Studies integrating genetic or physiological markers of coffee/caffeine intake to investigations of coffee and health.

Yu-Gi-Oh! Ani-Manga, Vol. 1-Kazuki Takahashi 2004-11-24 When a

strange tomb is discovered, the Egyptian lord of death awakens from his sleep of 5,000 years. Yugi duels his rival Kaiba and battles to save the world from a new age of darkness.

The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5)-L.R. Morss 2007-12-31 The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements, especially of the technologically important elements uranium and plutonium, as well as the transactinide elements. In addition to the comprehensive treatment of the chemical properties of each element, ion, and compound from atomic number 89 (actinium) through to 109 (meitnerium), this multi-volume work has specialized and definitive chapters on electronic theory, optical and laser fluorescence spectroscopy, X-ray absorption spectroscopy, organoactinide chemistry, thermodynamics, magnetic properties, the metals, coordination chemistry, separations, and trace analysis. Several chapters deal with environmental science, safe handling, and biological interactions of the actinide elements. The Editors invited teams of authors, who are active practitioners and recognized experts in their specialty, to write each chapter and have endeavoured to provide a balanced and insightful treatment of these fascinating elements at the frontier of the periodic table. Because the field has expanded with new spectroscopic techniques and environmental focus, the work encompasses five volumes, each of which groups chapters on related topics. All chapters represent the current state of research in the chemistry of these elements and related fields.

Criterion-referenced Test Development-Sharon A. Shrock 2008-05-14 Criterion-Referenced Test Development is designed specifically for training professionals who need to better understand how to develop criterion-referenced tests (CRTs). This important resource offers step-by-step guidance for how to make and defend Level 2 testing decisions, how to write test questions and performance scales that match jobs, and how to show that those certified as ?masters? are truly masters. A comprehensive guide to the development and use of CRTs, the book provides information about a variety of topics, including different methods of test interpretations, test construction, item formats, test scoring, reliability and validation methods, test administration, a score reporting, as well as the legal and liability issues surrounding testing. New revisions include: Illustrative real-world examples. Issues of test security. Advice on the use of test creation software. Expanded sections on performance testing. Single administration techniques for calculating reliability. Updated legal and compliance guidelines. Order the third edition of this classic and comprehensive reference guide to the theory and practice of organizational tests today.

China's Examination Hell-Ichisada Miyazaki 1981-01-01 Written by one of the foremost historians of Chinese institutions, this book focuses on China's civil service examination system in its final and most elaborate phase during the Ch'ing dynasty. All aspects of this labyrinthine system are explored: the types of questions, the style and form in which they were to be answered, the problem of cheating, and the psychological and financial burdens of the candidates, the rewards of the successful and the plight of those who failed. Drawing on a wide range of sources, including Chinese novels, short stories, and plays, this thought provoking and entertaining book brings to vivid life the testing structure that supplied China's government bureaucracy for almost fourteen hundred years. "Professor Miyazaki's informative work is concerned with a system. . . that was, in effect, . . . the basic institution of Chinese political life, the real pillar which supported the imperial monarchy, the effective vehicle for the aspirations and ambitions of the ruling class. Imperial China without the examination system for the past thousand years and more would have developed in an entirely different way and might not have endured as the continuing form of government over a huge empire."--Pacific Affairs "The most comprehensive narrative treatment in any language of [this] enduring achievement of Chinese civilization."--American Historical Review

The Health and Social Effects of Nonmedical Cannabis Use-World Health Organization 2016-02-15 Cannabis is globally the most commonly used psychoactive substance under international control. In 2013, an estimated 181.8 million people aged 15-64 years used cannabis for nonmedical purposes globally (UNODC, 2015). There is an increasing demand for treatment for cannabis-use disorders and associated health conditions in high- and middle-income countries. This report focuses on nonmedical use of cannabis, building on contributions from a broad range of experts and researchers from different parts of the world. It aims to present current knowledge on the impact of nonmedical cannabis use on health, from its impact on brain development to its role in respiratory diseases. The potential medical utility of cannabis -- including the pharmacology, toxicology and possible therapeutic applications of the cannabis plant -- is outside the scope of this report.

Edible Insects-Arnold van Huis 2013 Edible insects have always been a part of human diets, but in some societies there remains a degree of disdain and disgust for their consumption. Insects offer a significant opportunity to merge traditional knowledge and modern science to improve human food security worldwide. This publication describes the contribution of insects to food security and examines future prospects for raising insects at a commercial scale to improve food and feed production, diversify diets, and support livelihoods in both developing and developed countries. Edible insects are a promising alternative to the conventional production of meat, either for direct human consumption or for indirect use as feedstock. This publication will boost awareness of the many valuable roles that insects play in sustaining nature and human life, and it will stimulate debate on the expansion of the use of insects as food and feed.

Biochar for Environmental Management-Johannes Lehmann 2012-05-16 Biochar is the carbon-rich product when biomass (such as wood, manure or crop residues) is heated in a closed container with little or no available air. It can be used to improve agriculture and the environment in several ways, and its stability in soil and superior nutrient-retention properties make it an ideal soil amendment to increase crop yields. In addition to this, biochar sequestration, in combination with sustainable biomass production, can be carbon-negative and therefore used to actively remove carbon dioxide from the atmosphere, with major implications for mitigation of climate change. Biochar production can also be combined with bioenergy production through the use of the gases that are given off in the pyrolysis process. This book is the first to synthesize the expanding research literature on this topic. The book's interdisciplinary approach, which covers engineering, environmental sciences, agricultural sciences, economics and policy, is a vital tool at this stage of biochar technology development. This comprehensive overview of current knowledge will be of interest to advanced students, researchers and professionals in a wide range of disciplines.

The Flowering Response of the Rice Plant to Photoperiod-B. S. Vergara 1985

Chemically-Induced DNA Damage, Mutagenesis, and Cancer-Ashis K. Basu 2018-08-27 This book is a printed edition of the Special Issue " Chemically-Induced DNA Damage, Mutagenesis, and Cancer" that was published in IJMS

Yu-Gi-Oh!, Vol. 2-Kazuki Takahashi 2013-07-09 Meet Seto Kaiba, master of the world's most dangerous collectible card game. When Kaiba discovers that Yugi's grandfather owns the incredibly rare "Blue-Eyes White Dragon" card, he will stop at nothing to get it...even if he has to duel with Yugi's dark alter-ego Yu-Gi-Oh! Then, an Egyptian museum exhibit brings with it an unwelcome visitor: Shadi, the mystical Keeper of the Millennium Items, whose bloodline has guarded the tombs of Egypt for 3,000 years. Recognizing Yu-Gi-Oh as his only rival, he puts him to the test to see who is the true King of Games... -- VIZ Media

Insect Pests of Rice-M. D. Pathak 1994

Effect of Heavy Metal Pollution on Plants-N. W. Lepp 2012-12-06 Trace metals occur as natural constituents of the earth's crust, and are ever present constituents of soils, natural waters and living matter. The biological significance of this disparate assemblage of elements has gradually been uncovered during the twentieth century; the resultant picture is one of ever-increasing complexity. Several of these elements have been demonstrated to be essential to the functions of living organisms, others appear to only interact with living matter in a toxic manner, whilst an ever-decreasing number do not fall conveniently into either category. When the interactions between trace metals and plants are considered, one must take full account of the known chemical properties of each element. Consideration must be given to differences in chemical reactivity, solubility and to interactions with other inorganic and organic molecules. A clear understanding of the basic chemical properties of an element of interest is an essential pre-requisite to any subsequent consideration of its biological significance. Due consideration to basic chemical considerations is a theme which runs through the collection of chapters in both volumes.

Atmospheric Effects in Space Geodesy-Johannes Böhm 2013-06-12 Various effects of the atmosphere have to be considered in space geodesy and all of them are described and treated consistently in this textbook. Two chapters are concerned with ionospheric and tropospheric path delays of microwave and optical signals used by space geodetic techniques, such as the Global Navigation Satellite Systems (GNSS), Very Long Baseline Interferometry (VLBI), or Satellite Laser Ranging (SLR). It is explained how these effects are best reduced and modelled to improve the accuracy of space geodetic measurements. Other chapters are on the deformation of the Earth’s crust due to atmospheric loading, on atmospheric excitation of Earth rotation, and on atmospheric effects on gravity field measurements from special satellite missions such as CHAMP, GRACE, and GOCE. All chapters have been written by staff members of the Department of Geodesy and Geoinformation at TU Wien who are experts in the particular fields.

Advanced Engineering Mathematics-H K Dass 2008-01-01 This book has received very good response from students and teachers within the country and abroad alike.Its previous edition exhausted in a very short time.I place on record my sense of gratitude to the students and teachers for their appreciation of my work,which has offered me an opportunity to bring out this revised Eighteenth Edition.Due to the demand of students a chapter on Linear Programming as added.A large number of new examples and problems selected from the latest question papers of various engineering examinations held recently have been included to enable the students to understand the latest trend.

Carbonic Anhydrases and Metabolism-Claudiu T. Supuran 2019-04-08 Carbonic anhydrases (CAs; EC 4.2.1.1) are metalloenzymes present in all kingdoms of life, as they equilibrate the reaction between three simple but essential chemical species: CO2, bicarbonate, and protons. Discovered more than 80 years ago, in 1933, these enzymes have been extensively investigated due to the biomedical application of their inhibitors, but also because they are an extraordinary example of convergent evolution, with seven genetically distinct CA families that evolved independently in Bacteria, Archaea, and Eukarya. CAs are also among the most efficient enzymes known in nature, due to the fact that the uncatalyzed hydration of CO2 is a very slow process and the physiological demands for its conversion to ionic, soluble species is very high. Inhibition of the CAs has pharmacological applications in many fields, such as antiglaucoma, anticonvulsant, antiobesity, and anticancer agents/diagnostic tools, but is also emerging for designing anti-infectives, i.e., antifungal, antibacterial, and antiprotozoan agents with a novel mechanism of action. Mitochondrial CAs are implicated in de novo lipogenesis, and thus selective inhibitors of such enzymes may be useful for the development of new antiobesity drugs. As tumor metabolism is diverse compared to that of normal cells, ultimately, relevant contributions on the role of the tumor-associated isoforms CA IX and XII in these phenomena have been published and the two isoforms have been validated as novel antitumor/antimetastatic drug targets, with antibodies and small-molecule inhibitors in various stages of clinical development. CAs also play a crucial role in other metabolic processes connected with urea biosynthesis, gluconeogenesis, and so on, since many carboxylation reactions catalyzed by acetyl-coenzyme A carboxylase or pyruvate carboxylase use bicarbonate, not CO2, as a substrate. In organisms other than mammals, e.g., plants, algae, and cyanobacteria, CAs are involved in photosynthesis, whereas in many parasites (fungi, protozoa), they are involved in the de novo synthesis of important metabolites (lipids, nucleic acids, etc.). The metabolic effects related to interference with CA activity, however, have been scarcely investigated. The present Special Issue of Metabolites aims to fill this gap by presenting the latest developments in the field of CAs and their role in metabolism.

Targets, Tracers and Translation – Novel Radiopharmaceuticals Boost Nuclear Medicine-Gerald Reischl 2019-09-20 This is the fourth Special Issue in Pharmaceuticals within the last six years dealing with aspects of radiopharmaceutical sciences. It demonstrates the significant interest and increasing relevance to ameliorate nuclear medicine imaging with PET or SPECT, and also radiotherapeutical procedures.Numerous targets and mechanisms have been identified and have been under investigation over the previous years, covering many fields of medical and clinical research. This development is well illustrated by the articles in the present issue, including 13 original research papers and one review, covering a broad range of actual research topics in the field of radiopharmaceutical sciences.

Yu-Gi-Oh!, Vol. 4-Kazuki Takahashi 2013-07-23 Kaiba's back and this time it's personal! When Yugi beat his classmate at a simple game of the collectible card game "Duel Monsters," he didn't realize that Kaiba was Japan's #1 gamer, the impossibly rich heir to the Kaiba Corporation, and a madman who would stop at nothing to get revenge! Now, a simple sleepover turns into a struggle for survival as Yugi, and his friends, must survive Kaiba's "Death-T" a THEME PARK of DEATH designed just to send Yugi to an early grave! Using virtual reality to simulate Yugi's own magic powers, Kaiba gives Yugi's grandfather a heart attack, forcing Yugi to undergo "Death-T" with a "Duel Monsters" rematch as the final goal! And Kaiba's little brother, Mokuba, has a score to settle too! With the life of Yugi's grandfather on the line, our heroes must survive lasers, guillotines, and chainsaw-wielding maniacs! Can Yugi's gaming powers save him now? -- VIZ Media

Molybdenum and Tungsten Enzymes-Russ Hille 2016-09-30 There has been enormous progress in our understanding of molybdenum and tungsten enzymes and relevant inorganic complexes of molybdenum and tungsten over the past twenty years. This set of three books provides a timely and comprehensive overview of the field and documents the latest research. Building on the first and second volumes that focussed on biochemistry and bioinorganic chemistry aspects, the third volume focusses on spectroscopic and computational methods that have been applied to both enzymes and model compounds. A particular emphasis is placed on how these important studies have been used to reveal critical components of enzyme mechanisms.This text will be a valuable reference to workers both inside and outside the field, including graduate students and young investigators interested in developing new research programs in this area.

The Selection and Use of Essential Medicines-WHO Expert Committee on the Selection and Use of Essential Medicines 2004 This report presents the recommendations of the WHO Expert Committee responsible for updating the WHO Model List of Essential Medicines. The first part contains a progress report on the new procedures for updating the Model List and the development of the WHO Essential Medicines Library. It continues with a section on changes made in revising the Model List followed by a review of some sections such as hypertensive medicines and fast track procedures for deleting items. Annexes include the 13th version of the Model List and items on the list sorted according to their 5-level Anatomical Therapeutic Chemical classification codes.

Yu-Gi-Oh! Zexal-Shin Yoshida 2015-09-01 Kyoji Yagumo has maneuvered Yuma and Kaito into a duel for Haruto’s life. Elsewhere, Luna approaches the Numbers club and enlists them to help her locate Haruto. With all the Numbers cards now in play in the massive Heartland Duel Arena, the final battle of the Numbers War is about to begin! -- VIZ Media

New Advances on Zika Virus Research-Luis Martinez-Sobrido 2019-04-02 Zika virus (ZIKV) is a mosquito-borne member of the Flaviviridae family that historically has been associated with mild febrile illness. However, the recent outbreaks in Brazil in 2015 and its rapid spread throughout South and Central America and the Caribbean, together with its association with severe neurological disorders—including fetal microcephaly and Guillain-Barré syndrome in adults—have changed the historic perspective of ZIKV. Currently, ZIKV is considered an important public health concern that has the potential to affect millions of people worldwide. The significance of ZIKV in human health and the lack of approved vaccines and/or antiviral drugs to combat ZIKV infection have triggered a global effort to develop effective countermeasures to prevent and/or treat ZIKV infection. In this Special Issue of Viruses, we have assembled a collection of 32 research and review articles that cover the more recent advances on ZIKV molecular biology, replication and transmission, virus–host interactions, pathogenesis, epidemiology, vaccine development, antivirals, and viral diagnosis.

Yu-Gi-Oh!: Duelist, Vol. 12-Kazuki Takahashi 2006-01-03 In the second saga of the Yu-Gi-Oh! epic, Duel Monsters is the world's most popular collectible card game-but to Yugi, it's the most dangerous game of all! Entering the Duel Monsters world championship, Yugi fights ruthless opponents like game designer Maximillion Pegasus and teenage multimillionaire Kaiba Seto, hoping to discover the origin of the game...and his own powers! Contains the original storyline of the first season of Yu-Gi-Oh!, including scenes too startling for TV! Yugi fights Pandora, a duelist who uses one of Yugi's own favorite cards, the Dark Magician! But can Yugi duel while chained in the path of a roaring buzzsaw? Meanwhile, Jonouchi fights an old enemy, Insector Haga. For the sake of his sister, Jonouchi must fight an army of vicious bugs...and that's not all. His own deck has been infected with Haga's parasitic insects! Is this the end?

Yu-Gi-Oh! Zexal-Shin Yoshida 2014-07-01 The Numbers War heats up as

Yuma and the Numbers Club track down more of the powerful cards. Kaito’s past comes into play as Yuma tries to find out why this expert Duelist is seeking the Numbers cards. A duel between Kaito and Yuma’s old rival Shark may lead them all to a surprising alliance! -- VIZ Media

Recent Advances in Novel Materials for Future Spintronics-Xiaotian Wang 2019-05-27 As we all know, electrons carry both charge and spin. The processing of information in conventional electronic devices is based only on the charge of electrons. Spin electronics, or spintronics, uses the spin of electrons, as well as their charge, to process information. Metals, semiconductors, and insulators are the basic materials that constitute the components of electronic devices, and these types of materials have been transforming all aspects of society for over a century. In contrast, magnetic metals, half-metals (including zero-gap half-metals), magnetic semiconductors (including spin-gapless semiconductors), dilute magnetic semiconductors, and magnetic insulators are the materials that will form the basis for spintronic devices. This book aims to collect a range of papers on novel materials that have intriguing physical properties and numerous potential practical applications in spintronics.

Yu-Gi-Oh!, Vol. 3-Kazuki Takahashi 2013-07-16 Out of the sands of Egypt, the mystic Shadi has come to test Yugi's powers... because there can be only one King of Games. With the Millennium Scales and the Millennium Key, Shadi summons deadly illusions which will give Yugi his greatest challenge yet--and if he loses, his best friends will die! Then, Yugi's classmate Hanasaki takes his infatuation with superheroes too far; Yugi and his friends discover the hidden characters in digital keychain pets; and Yugi meets Mokuba, Kaiba's brother, for a high-stakes game of "Capsule Monster Chess!" -- VIZ Media

Nanogenerators in Korea-Dukhyun Choi 2019-02-27 Fossil fuels leaded the 21st century industrial revolution but caused some critical problems such as exhaustion of resources and global warming. Also, current power plants require too much high cost and long time for establishment and facilities to provide electricity. Thus, developing new power production systems with environmental friendliness and low-cost is critical global needs. There are some emerging energy harvesting technologies such as thermoelectric, piezoelectric, and triboelectric nanogenerators, which have great advantages on eco-friendly low-cost materials, simple fabrication, and various operating sources. Since the introduction of various energy harvesting technologies, many novel designs and applications as power suppliers and physical sensors in the world have been demonstrated based on their unique advantages. In this Special Issue, we would like to address and share basic approaches, new designs, and industrial applications related to thermoelectric, piezoelectric, and triboelectric devices which are on-going in Korea. With this Special Issue, we aim to promote fundamental understanding and to find novel ways to achieve industrial product manufacturing for energy harvesters.

The Chemistry of Mercury-Charles Andrew McAuliffe 2016-03-21