

Nuclear Reactor Engineering Gltone

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For the first time, the long-theorized neutron-clustering effect in nuclear reactors has been demonstrated, which could improve reactor safety and create more accurate simulations, according to a new ...

Neutron-clustering effect in nuclear reactors demonstrated for first time

Purdue University is adding an online master's degree in nuclear engineering to its online engineering graduate programs. Beginning this fall, Purdue says the Master of Nuclear

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Engineering program wil ...

Purdue Adds Online Master's in Nuclear Engineering

Each company will receive a potential 12-year, \$5 million contract from DOE's Idaho National Laboratory for their reactor design development efforts, NASA said Tuesday. BWXT will work with Lockheed ...

NASA, DOE Pick 3 Companies for Nuclear Thermal Propulsion Reactor Design Contracts

The Defense Department is working to quickly procure a small, transportable nuclear reactor that could help bring energy to remote and austere environments. However, the program has drawn criticism ...

Portable Nuclear Reactor Program Sparks Controversy

The IAEA and the Generation IV International Forum (GIF) have agreed to expand their cooperation to include areas in the field of integrated energy systems, nuclear heat applications and hydrogen ...

IAEA and GIF to Cooperate on Integrated Energy Systems, Nuclear Heat Applications and Advanced Manufacturing

NASA has selected three teams of companies to perform concept studies of nuclear thermal propulsion (NTP) reactors.

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NASA issues contracts for nuclear thermal propulsion studies

Purdue University is adding an online master's degree in nuclear engineering to its highly ranked online engineering graduate programs designed for professional engineers looking to enhance their ...

Purdue adds new master's in nuclear engineering to its online graduate programs

United States helps implement new maintenance procedures and operations at Ukraine's Zaporizhzhya Unit 2 that should ultimately strengthen energy security in the country.

U.S. Helps Optimize Ukrainian Nuclear Reactor

The curtain is slowly being drawn on Kent's only nuclear reactors - we look back to when the site was first commissioned.

History of Dungeness nuclear power station as both reactors travel the road to decommissioning

The University of Illinois at Urbana-Champaign (UIUC) has formally kicked off a pioneering project to partly re-power its 85-MW Abbott cogeneration plant ...

Illinois University Seeking NRC License to Build Nuclear Microreactor

When you think of nuclear energy, you're probably picturing huge and dangerous power plants. But what if future nuclear power plants were actually so small that they could be called "nuclear batteries" ...

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Next-Gen Micro Nuclear Reactors Could Be the Answer for Carbon-Free Electricity

Ford showed the world a car like it had never seen before, one powered by a small nuclear reactor. The Ford Nucleon, as it was christened, was envisioned as a car capable of driving more than 5,000 ...

Inside the Impossible Dream of the Nuclear-Powered 1958 Ford Nucleon

Taiwan's move to end the country's use of nuclear power continues, with Unit 1 of the Kuosheng Nuclear Power Plant being shut down. The reactor was taken ...

Taiwan Shuts Another Reactor as Part of Nuclear-Free Goal

The U.S. Nuclear Regulatory Commission is seeking comments on a propose rule that would certify NuScale Power's small modular reactor design for use in U.S. projects. The NRC already has given ...

Feds seeking comment on certifying NuScale SMR design for U.S. next-gen nuclear

The Kudankulam Nuclear Power Project started the construction of the fifth and sixth reactors on its sprawling premises on Tuesday. It is already operating 2 x 1,000 MWe VVER nuclear reactors and ...

Construction of Kudankulam nuclear reactors 5 and 6 begins

GE Hitachi Nuclear Energy to demonstrate three technologies that when combined could

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reduce costs by more than 10%. □For advanced nuclear energy to realize its potential, we have to make it more ...

Feds Launch \$6M Construction Tech Testing for Nuclear Power Building Inc. (DEI) was awarded a contract to supply vacuum canister fuel sipping equipment and services at nuclear reactors in Korea and ...

DEI and KNF to Cooperate for Nuclear Fuel Sipping
Courtesy/LANL For the first time, the long-theorized neutron-clustering effect in nuclear reactors has been demonstrated, which could improve reactor safety and create more accurate simulations, ...

LANL: Long-theorized Neutron-Clustering Effect In Nuclear Reactors Demonstrated For First Time

The long-theorized neutron-clustering effect in nuclear reactors has been demonstrated, which could improve reactor safety and create more accurate simulations, according to a new study. "The ...

This book is a printed edition of the Special Issue "Plant Genetics and Biotechnology in Biodiversity" that was published in Diversity

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Our understanding of the pathology of amyotrophic lateral sclerosis is a continuously changing field. New hypotheses are generated with each new discovery; they are abandoned to be reanalyzed after some time under the light of new observations. This book presents a series of reviews from experts in different aspects of the disease focus on these hypotheses. There are also a few review chapters providing clear examples of these new observations that make the field to reanalyze previous conclusions.

This book extends the frontiers of the ion exchange technologist and highlights new materials for the future.

Systems Metabolic Engineering is changing the way microbial cell factories are designed and optimized for industrial production. Integrating systems biology and biotechnology with new concepts from synthetic biology enables the global analysis and engineering of microorganisms and bioprocesses at super efficiency and versatility otherwise not accessible. Without doubt, systems metabolic engineering is a major driver towards bio-based production of chemicals, materials and fuels from renewables and thus one of the core technologies of global green growth. In this book, Christoph Wittmann and Sang-Yup Lee have assembled the world leaders on systems metabolic engineering and cover the full story – from genomes and networks via discovery and design to industrial implementation practices. This book is a comprehensive resource for students and researchers from academia and industry interested in systems metabolic engineering. It provides us with the fundamentals to targeted engineering of microbial cells for sustainable bio-production and stimulates those who are interested to

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enter this exiting research field.

Volume 2 of the Textbook of Neural Repair and Rehabilitation stands alone as a clinical handbook for neurorehabilitation.

This book contains selected peer-reviewed chapters which cover updated information on ALS written by international researchers. Update on Amyotrophic Lateral Sclerosis is comprised of 13 chapters from some of the world's top central nervous system researchers and neurologists to provide a timely review of the most recent developments in ALS, covering historic aspects, experimental animal models, genetics, pathogenesis, clinical aspects and imagenology among others. Contributors from Belgium, France, Japan, India, Italy, Mexico, Russia, South Africa, and Switzerland have collaborated enthusiastically and efficiently, dedicating their time to create this reader-friendly yet comprehensive work which includes many explanatory figures, tables and photos to enhance legibility and make the book clinically useful. We are looking forward with confidence and pride in the remarkable role that this book will play for a new vision and mission.

Weingartner shows that an essential part of natural or philosophical theology and even a part of theology can be treated axiomatically. God's essence, omniscience, omnipotence, creating activity, and all-goodness are described by axioms and by theorems proved from them.

This is the first volume to provide comprehensive coverage of the biology of water use

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efficiency at molecular, cellular, whole plant and community levels. While several works have included the phenomenon of water use efficiency, and others have concentrated on an agronomic framework, this book represents the first detailed treatment with a biological focus. The volume sets out the definitions applicable to water use efficiency, the fundamental physiology and biochemistry governing the efficiency of carbon vs water loss, the environmental regulation of this process and the detailed physiological basis by which the plant exerts control over such efficiency. It is aimed at researchers and professionals in plant physiology, biochemistry, molecular biology, developmental biology and agriculture. It will also inform those involved in formulating research and development policy in this topic around the world.

This book serves as an introduction to targeted genome editing, beginning with the background of this rapidly developing field and methods for generation of engineered nucleases. Applications of genome editing tools are then described in detail, in iPS cells and diverse organisms such as mice, rats, marine invertebrates, fish, frogs, and plants. Tools that are mentioned include zinc finger nucleases (ZFNs), transcription activator-like effector nucleases (TALENs), and CRISPR/Cas9, all of which have received much attention in recent years as breakthrough technologies. Genome editing with engineered nucleases allows us to precisely change the target genome of living cells and is a powerful way to control functional genes. It is feasible in almost all organisms ranging from bacteria to plants and animals, as well as in cultured cells such as ES and iPS cells. Various genome modifications have proven successful, including gene knockout and knock-in experiments with targeting vectors and

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chromosomal editing. Genome editing technologies hold great promise for the future, for example in biomedical research, clinical medicine, and generation of crops and livestock with desirable traits. A wide range of readers will find this book interesting, and with its focus on applications in a variety of organisms and cells, the book will be valuable for life scientists in all fields.

Brain Energy Metabolism addresses its challenging subject by presenting diverse technologies allowing for the investigation of brain energy metabolism on different levels of complexity. Model systems are discussed, starting from the reductionist approach like primary cell cultures which allow assessing of the properties and functions of a single brain cell type with many different types of analysis, however, at the expense of neglecting the interaction between cell types in the brain. On the other end, analysis in animals and humans in vivo is discussed, maintaining the full complexity of the tissue and the organism but making high demands on the methods of analysis. Written for the popular Neuromethods series, chapters include the kind of detailed description and key implementation advice that aims to support reproducible results in the lab. Meticulous and authoritative, Brain Energy Metabolism provides an ideal guide for researchers interested in brain energy metabolism with the hope of stimulating more research in this exciting and very important field.

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