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Methanol as a marine fuel is increasingly becoming a viable contributor in shipping's drive for a clean, sustainable fuel mix, and is providing the experience necessary for the development of stronger ...

Powering a Low-Carbon Future With Methanol as a Marine Fuel
SINTEF research scientist Andrea Gruber crunches numbers, albeit with the help of the supercomputer "Betzy." A seemingly infinite string of calculations is now answering open scientific questions ...

Ammonia may be the key to making long-haul shipping green
Electrifying global transportation won't be enough to reach net-zero emissions in coming decades without pushing alternative fuels like hydrogen and ...

Hydrogen, ammonia and a clean-fuel standard could help get the world to net-zero emissions
The 63rd IEEE-IAS/PCA Cement Industry Technical Conference was held on 24-28 May 2021 as a virtual event, consisting of training workshops, technical conference, international exhibition and ...

Virtual IEEE-IAS/PCA event
Ramez Naam discusses the affordability of clean energy, predicting that solar and wind will become widely adopted in the near future. He also speaks about his own work in science fiction, emphasizing ...

Does affordable clean energy make economic growth and environmentalism compatible? My long-read Q&A with Ramez Naam
It's being called the "fuel of the future" in the new age of electric vehicles, but this common household chemical was already being used as a fuel nearly 80 years ago. With a massive diesel shortage ...

Beyond Hydrogen: The Fuel of the Future Could Come from 80 Years in the Past
For two days this week, much of the financial media was paying close attention to a Delaware courtroom where Tesla CEO Elon Musk faced intense questioning about the 2016 merger of Tesla with SolarCity ...

Inside Clean Energy: Lawsuit Recalls How Elon Musk Was King of Rooftop Solar and then Lost It
Americans are concerned about the state of the environment, and yet polls show that many have lost faith in both scientists' and politicians' ability ...

America's Environmental Report Card: Are We Making the Grade?
Net-zero pledges around the world rely heavily on capturing and storing climate-changing emissions – but far too little storage is being developed.

Scarce carbon storage threatens net-zero push as emissions keep rising
Renewable energy sources provide a very intuitive way to fulfill the world's energy needs. While fossil fuels may deplete sooner or later, renewable energy sources are there forever. Yet, higher ...

5 Reasons to Invest in Renewable Energy Stocks
The energy market is in the midst of a monumental shift toward cleaner fuel sources. Companies in the sector will need to invest trillions of dollars over the next several decades to make the switch.

3 Energy Stocks with High-Yield Dividends That Should Survive the Clean Energy Transition
U S Fiberglass Tanks Market Introduction The fiberglass tanks market in the U S was valued at US 400 Mn in 2020 and is expected to exceed US 600 Mn by 2031 expanding at a CAGR of 5 during the ...

U.S. fiberglass tanks market to surpass valuation of us$ 600 mn by 2031: TRANSPARENCY MARKET RESEARCH
Fiddler renowned for work with Stones dies in Oklahoma, South Carolina prisons hit national low for recidivism, and more ...

Manatee mortality, bug zapper zaps vision, Borat pot suit: News from around our 50 states
On July 9, 2021, the Court issued a post-trial ruling denying POSCO Energy's summary statutory demand to inspect the Company's books and records ... life of the power plant. Our fuel cell solution is ...

FuelCell Energy Receives Court Case Win in the Court of Chancery in Delaware Versus Posco Energy
The last fuel assembly is loaded into a storage container ... benefits (minimizing risk to property and life) of retaining the spent fuel pools, or using alternative spent fuel repackaging options." ...

Judge: Safety at retired San Onofre plant not dependent on preserving spent fuel pools
Although there is no need for gas for heating, there is a demand for storage injections and power ... often seen as a viable alternative fuel for the shipping industry, was on the back of a ...

Maritime market update: LNG consumption as a marine fuel has almost doubled in 2020
So we need zero emissions alternative ... on renewable fuels as opposedto some of the other options. And here's the question for the audience what is the cost of the focus on congestion compared ...

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Alternative Fuels Guidebook covers a wide range of fuels, including alcohols, gases, and vegetable oils. The book presents the fundamentals needed to understand the physical and chemical properties of alternative fuels, and how they impact refueling system design and modification of existing garages for safety.

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The only source that focuses exclusively on engineering and technology, this important guide maps the dynamic and changing field of information sources published for engineers in recent years. Lord highlights basic perspectives, access tools, and English-language resources--directories, encyclopedias, yearbooks, dictionaries, databases, indexes, libraries, buyer's guides, Internet resources, and more. Substantial emphasis is placed on digital resources. The author also discusses how engineers and scientists use information, the culture and generation of scientific information, different types of engineering information, and the tools and resources you need to locate and access that material. Other sections describe regulations, standards and specifications, government resources, professional and trade associations, and education and career resources. Engineers, scientists, librarians, and other information professionals working with engineering and technology information will welcome this research

This book covers alternative fuels and their utilization strategies in internal combustion engines. The main objective of this book is to provide a comprehensive overview of the recent advances in the production and utilization aspects of different types of liquid and gaseous alternative fuels. In the last few years, methanol and DME have gained significant attention of the energy sector, because of their capability to be utilized in different types of engines. This book will be a valuable resource for researchers and practicing engineers alike.

This book examines a broad range of advances in hydrogen energy and alternative fuel developments and their role in the energy transition. The respective contributions were presented at the International Symposium on Sustainable Hydrogen, held in Algiers, Algeria on November 27-28, 2019. The transition from non-renewable polluting energy to sustainable green energy requires not only new energy sources but also new storage techniques and smart energy management. This situation has sparked renewed interest in hydrogen and alternative fuels, as they could help meet these needs. Indeed, hydrogen can not only be used as a clean energy vector or as an alternative fuel, but also as a storage medium or as an intermediary that enables improved energy management. This text offers a valuable reference guide for those working in the professional energy sector, as well as for students and instructors in academia who want to learn about the state of the art and future directions in the fields of hydrogen energy, alternative fuels and sustainable energy development.

From Methane to Hydrogen-Making the Switch to a Cleaner Fuel Source The world's overdependence on fossil fuels has created environmental problems, such as air pollution and global warming, as well as political and economic unrest. With water as its only by-product and its availability in all parts of the world, hydrogen promises to be the next grea

Most vehicles run on fossil fuels, and this presents a major emissions problem as demand for fuel continues to increase. Alternative Fuels and Advanced Vehicle Technologies gives an overview of key developments in advanced fuels and vehicle technologies to improve the energy efficiency and environmental impact of the automotive sector. Part I considers the role of alternative fuels such as electricity, alcohol, and hydrogen fuel cells, as well as advanced additives and oils, in environmentally sustainable transport. Part II explores methods of revising engine and vehicle design to improve environmental performance and fuel economy. It contains chapters on improvements in design, aerodynamics, combustion, and transmission. Finally, Part III outlines developments in electric and hybrid vehicle technologies, and provides an overview of the benefits and limitations of these vehicles in terms of their environmental impact, safety, cost, and design practicalities. Alternative Fuels and Advanced Vehicle Technologies is a standard reference for professionals, engineers, and researchers in the automotive sector, as well as vehicle manufacturers, fuel system developers, and academics with an interest in this field. Provides a broad-ranging review of recent research into advanced fuels and vehicle technologies that will be instrumental in improving the energy efficiency and environmental impact of the automotive sector Reviews the development of alternative fuels, more efficient engines, and powertrain technologies, as well as hybrid and electric vehicle technologies

Metal-Organic Frameworks (MOFs) are crystalline compoundsconsisting of rigid organic molecules held together and organizedby metal ions or clusters. Special interests in these materialsarise from the fact that many are highly porous and can be used forstorage of small molecules, for example H2 orCO2. Consequently, the materials are ideal candidatesfor a wide range of applications including gas storage, separationtechnologies and catalysis. Potential applications includethe storage of hydrogen for fuel-cell cars, and the removal andstorage of carbon dioxide in sustainable technical processes. MOFsoffer the inorganic chemist and materials scientist a wide range ofnew synthetic possibilities and open the doors to new and excitingbasic research. Metal-Organic Frameworks Materials provides a solid basisfor the understanding of MOFs and insights into new inorganicmaterials structures and properties. The volume also reflectsprogress that has been made in recent years, presenting a widerange of new applications including state-of-the art developmentsin the promising technology for alternative fuels. Thecomprehensive volume investigates structures, symmetry,supramolecular chemistry, surface engineering, recognition,properties, and reactions. The content from this book will be added online to theEncyclopedia of Inorganic and Bioinorganic Chemistry: ahref="http://www.wileyonlinelibrary.com/ref/eibc"http://www.wileyonlinelibrary.com/ref/eibc/a