

Bio-Fuels

PB2016102797

Needs Assessment for Alternative Fuel Vehicle Training in California.

California Center for Sustainable Energy San Diego, CA 92123; Department of Energy, Washington, DC. 2013, 71p

Related Categories/Subcategories

97K - Fuels

92A - Job Training & Career Development

85D - Transportation Safety

43D - Police, Fire, & Emergency Services

Keywords: Training needs, California, First responders, Environmental policies, Fleet technicians, Alternative Fuel Vehicle (AFV)

Newsletter

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Design & Layout: Brian Congdon

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PB2016102795

Optimal Design of Sustainable Cellulosic Biofuel Supply Chains: Multi-objective Optimization Coupled with Life Cycle Assessment and Input-Output Analysis.

Northwestern Univ., Evanston, IL; Argonne National Lab., Evanston, IL; National Renewable Energy Lab., Golden, CO; Department of Energy, Washington, DC.

2011, 66p

Related Categories/Subcategories

97K - Fuels

97R - Environmental Studies

97B - Energy Use, Supply, & Demand

97O - Miscellaneous Energy Conversion & Storage

Keywords: Biofuels, Ethanol, Life cycle assessment, Cost analysis, Biomass degradation, Feedstock compatibility, Sustainability, Input-output analysis, Cellulosic ethanol supply chains, Greenhouse Gas (GHG) emissions, Multiobjective mixed-integer linear programming (mo-MILP) model

PB2016102796

Impact of Biodiesel Impurities on the Performance and Durability of DOC, DPF and SCR Technologies. National Renewable Energy Lab., Golden, CO; Department of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy.

2011, 23p

Related Categories/Subcategories

97K - Fuels

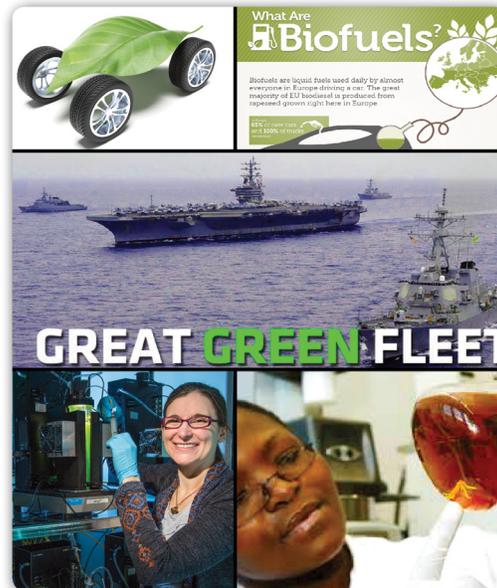
68A - Air Pollution & Control

97R - Environmental Studies

97O - Miscellaneous Energy Conversion & Storage

97B - Energy Use, Supply, & Demand

Keywords: Biodiesel fuels, Metal impurities, Air quality, Ash exposure, Performance impacts, Engine testing, Renewable energy, Diesel emission control systems



PB2016102798

Alternative Transportation Refueling Infrastructure in the U.S. 2014: Status and Challenges.

Oak Ridge National Lab., TN; Tennessee Univ., Knoxville; Department of Energy, Washington, DC. 2015, 45p

Related Categories/Subcategories

97K - Fuels

97O - Miscellaneous Energy Conversion & Storage

97B - Energy Use, Supply, & Demand

97R - Environmental Studies

68A - Air Pollution & Control

85H - Road Transportation

Keywords: Alternative fuels, Energy security, Air quality, Refueling infrastructure, Highway vehicles, Refueling stations, Environmental impacts, Fuel prices, Transportation energy



PB2016102799

Energy Life-Cycle Assessment of Soybean Biodiesel.
Department of Agriculture, Washington, DC. Office of the Chief Economist.
2009, 31p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
97B - Energy Use, Supply, & Demand
97O - Miscellaneous Energy Conversion & Storage
98B - Agricultural Economics

Keywords: Biodiesel fuel, Soybeans, Life cycle assessment, Energy conversion, Alternative fuels, Soybean oil, Energy life cycle, Feedstock production, Feedstock transportation, Soybean processing, Biodiesel conversion, Product distribution, Life-cycle inventory (LCI)

PB2016102960

High-Octane Mid-Level Ethanol Blend Market Assessment.

National Renewable Energy Lab., Golden, CO.; Oak Ridge National Lab., TN.; Colorado School of Mines, Golden.; Department of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy.
2015, 123p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
97B - Energy Use, Supply, & Demand
97O - Miscellaneous Energy Conversion & Storage

Keywords: Ethanol, Biofuel production, Renewable energy, Feedstocks, Energy security, Economic benefits, Blending, Fuel economy, Energy Independence and Security Act, Greenhouse gas (GHG) emissions, High-octane fuel (HOF)

PB2016102961

Careers in Biofuels.
Bureau of Labor Statistics, Washington, DC.
2013, 12p

Related Categories/Subcategories

97K - Fuels
97B - Energy Use, Supply, & Demand
44G - Environmental & Occupational Factors
92A - Job Training & Career Development

Keywords: Alternative fuels, Biofuels industry, Career development, Biofuels manufacturing, Occupations, Job descriptions, Credentials

PB2016102962

Advanced Petroleum Based Fuels Program and Renewable Diesel Program. Milestone Report: Technical Barriers to the Use of Ethanol in Diesel Fuel.

National Renewable Energy Lab., Golden, CO.; Midwest Research Inst., Golden, CO.; Battelle Columbus Div., Golden, CO. Denver Operations.; Department of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy.
2001, 22p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
97B - Energy Use, Supply, & Demand
97O - Miscellaneous Energy Conversion & Storage

Keywords: Petroleum products, Renewable energy, Ethanol production, Distribution, Storage, Cost analysis, Emulsifiers, Ethanol-diesel blends (E-diesel)

PB2016102963

Breaking the Biological Barriers to Cellulosic Ethanol: A Joint Research Agenda. A Research Roadmap Resulting from the Biomass to Biofuels Workshop.
Held in Rockville, Maryland on December 7-9, 2005.

Department of Energy, Washington, DC. Office of Science.
2006, 218p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
97B - Energy Use, Supply, & Demand
97O - Miscellaneous Energy Conversion & Storage
68A - Air Pollution & Control

Keywords: Ethanol fuels, Cellulose, Biofuel production, Meetings, Biomass crops, Renewable energy, Biodiesel fuels, Deployment, Cellulosic-biomass recalcitrance, Cellulosic ethanol

PB2016102965

Evaluation Guide for Fuel Cell Deployments at EPA Superfund Sites.

SRA International, Inc., Arlington, VA.; Environmental Protection Agency, Washington, DC.
2012, 56p

Related Categories/Subcategories

97K - Fuels
97O - Miscellaneous Energy Conversion & Storage
97B - Energy Use, Supply, & Demand
97R - Environmental Studies

Keywords: Fuel cells, Deployment, Superfund sites, Hydrogen fuel cells, Energy generation, Cleanup sites, Sustainability, Evaluations, Economic factors, Fuel cell projects

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PB2016102964

Enhanced Characteristics of Genetically Modified Switchgrass ('Panicum virgatum L.') for High Biofuel Production.

BioMed Central Floor 6, 236 Gray's Inn Road London WC1X 8HB United Kingdom; Department of Energy, Washington, DC. Office of Science; National Science Board, Arlington, VA.
2013, 15p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
97O - Miscellaneous Energy Conversion & Storage
97B - Energy Use, Supply, & Demand
68A - Air Pollution & Control
98D - Agronomy, Horticulture, & Plant Pathology

Keywords: Biofuel production, Renewable energy, Genetic modification, Recalcitrance, Bioenergy, Feedstock, Biodiesel, Lignocellulosic biomass, Greenhouse Gas (GHG) emissions, Switchgrass ('Panicum virgatum L.'). PvMYB4

PB2016102966

Survey of Non-Starch Ethanol and Renewable Hydrocarbon Biofuels Producers, 2015.

Nat'l Renewable Energy Lab., Golden, CO.; Dept. of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy.
2016, 33p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
68A - Air Pollution & Control
97B - Energy Use, Supply, & Demand

Keywords: Biofuels production, Non-starch ethanol, Renewable energy, Feedstock, Data collection, Renewable hydrocarbon biofuels

Key to Database Fields Used

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Donald M. Rosencrantz, Research Associate – Institute of Nautical Archaeology

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NTIS provides a valuable service. - Univ. of Colorado Engineering Professor

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Greg Guthrie, Program Manager
National Technical Reports Library (NTRL)
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Branded Site	-	-	-	✓
REPORTING				
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Public NTRL	-	-	-	-

PB2016102972

Life-Cycle Costs of Alternative Fuels: Is Biodiesel Cost Competitive for Urban Buses?

Economic Research Service, Washington, DC. 1995, 12p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
68A - Air Pollution & Control
97B - Energy Use, Supply, & Demand

Keywords: Biodiesel fuel, Alternative fuels, Life-cycle costs, Transit buses, Diesel fuel, Compressed natural gas, Methanol, Urban mass transit, Cost comparisons, Clean Air Act Amendments (CAAA)

PB2016102968

Impacts of Ethanol Policy on Corn Prices: A Review and Meta-Analysis of Recent Evidence.

Environmental Protection Agency, Washington, DC. National Center for Environmental Economics. 2013, 74p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
68A - Air Pollution & Control
98B - Agricultural Economics

Keywords: Biofuels, Renewable energy, Corn prices, Ethanol production, Agricultural impacts, Agricultural economics, Food security, Feedstock, Renewable Fuel Standard

PB2016102976

Industrial Biotechnology: Development and Adoption by the U.S. Chemical and Biofuel Industries. Investigation No. 332-481.

International Trade Commission, Washington, DC. 2008, 182p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
97B - Energy Use, Supply, & Demand
97O - Miscellaneous Energy Conversion & Storage

Keywords: Biotechnology, Biofuel industries, Chemical industries, Liquid biofuels, Renewable resources, Sustainability, Environmental impacts, Industrial biotechnology (IB)

PB2016102969

Combustion and Emission Characteristics of Biodiesel with Methyl Butanoate as Surrogate.

Argonne National Lab., IL.; Department of Energy, Washington, DC. Office of Science.

2011, 6p

Related Categories/Subcategories

97K - Fuels
68A - Air Pollution & Control
97R - Environmental Studies
97B - Energy Use, Supply, & Demand

Keywords: Compression ignition engines, Combustion characteristics, Emission characteristics, Spray behavior, Fuel-air mixing, Fuel surrogates, N-heptane, Methyl butanoate

PB2016102967

Computational Investigation of Diesel and Biodiesel Combustion and NOx Formation in a Light-Duty Compression Ignition Engine.

Mississippi State Univ., Mississippi State. Dept. of Mechanical Engineering; Argonne Nat'l Lab., IL; Dept of Energy, Washington, DC. Office of Science. 2012, 11p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
68A - Air Pollution & Control
97B - Energy Use, Supply, & Demand

Keywords: Biodiesel fuel, Diesel fuel, Compression ignition engines, Light-duty vehicles, Combustion, Air pollution, Alternative fuels, NOx formation, Computational Fluid Dynamics (CFD), CONVERGE

PB2016102970

Land Use Changes and Consequent CO2 Emissions due to US Corn Ethanol Production: A Comprehensive Analysis.

Purdue Univ., West Lafayette, IN. Dept. of Agricultural Economics; Argonne National Lab., IL. 2010, 90p

Related Categories/Subcategories

97K - Fuels
68A - Air Pollution & Control
97R - Environmental Studies
98C - Agricultural Equipment, Facilities, & Operations

Keywords: Corn ethanol, CO2 emissions, Biofuels, Renewable fuel, Global aspects, Air quality, Biodiesel, Ethanol production, Global Trade Analysis Project (GTAP), Greenhouse Gas (GHG) emissions

PB2016102974

Biofuels Incentives: A Summary of Federal Programs, January 11, 2012.

2012, 19p
Congressional Research Service, Washington, DC.

Related Categories/Subcategories

97K - Fuels
68C - Solid Wastes Pollution & Control

Keywords: Federal government programs, Administrating agencies, Authorizing statutes, Annual funding, Organic materials, Budget deficits, Federal biofuels incentives, Farm Bill, Environmental Protection Agency (EPA), Internal Revenue Service (IRS), Dept. of Agriculture (USDA), Department of Energy (DOE), Customs and Border Patrol

PB2016102971

Biodiesel Analytical Methods, August 2002–January 2004.

National Renewable Energy Lab., Golden, CO.; Midwest Research Inst., Golden, CO.; Battelle Columbus Div., Golden, CO. Denver Operations; Department of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy. 2004, 100p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
68A - Air Pollution & Control
97B - Energy Use, Supply, & Demand

Keywords: Biodiesel fuels, Alternative fuels, Renewable energy, Diesel engines, Exhaust pollutants, Biodiesel production, Analytical methods, Fuel properties, Feedstocks

PB2016102973

Long-Run Impact of Corn-Based Ethanol on the Grain, Oilseed, and Livestock Sectors: A Preliminary Assessment.

Iowa State Univ., Ames. Center for Agricultural and Rural Development; Cooperative State Research, Education and Extension Service, Washington, DC. 2006, 15p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
68A - Air Pollution & Control
Keywords: Biofuels, Ethanol production, Energy markets, Commodity markets, Corn price, Grain, Oilseed, Livestock, Agriculture, Fuel consumption

PB2016102975

U.S. Carbon Cycle Science Plan.

University Corp. for Atmospheric Research, Boulder, CO.; Nat'l Oceanic and Atmospheric Administration, Washington, DC.; Nat'l Aeronautics and Space Administration, Washington, DC.; Dept. of Energy, Washington, DC.; Dept. of Agriculture, Washington, DC.

2011, 81p

Related Categories/Subcategories

97K - Fuels
97B - Energy Use, Supply, & Demand
97R - Environmental Studies
68A - Air Pollution & Control
57H - Ecology

Keywords: Carbon cycle, Global aspects, Carbon stocks, Carbon dioxide, Methane, Carbon cycling, Ecosystems, Atmospheric effects, Ocean effects, Human effects, Greenhouse Gas (GHG)

PB2016102977

Breaking the Chemical and Engineering Barriers to Lignocellulosic Biofuels: Next Generation Hydrocarbon Bio refineries. A Research Roadmap for Making Lignocellulosic Biofuels a Practical Reality.

Massachusetts Univ., Amherst.; Nat'l Science Foundation, Arlington, VA.; American Chemical Society, Washington, DC.; Dept of Energy, Washington, DC. 2007, 181p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
97O - Miscellaneous Energy Conversion & Storage
Keywords: Liquid biofuels, Bio refineries, Biotechnology, Hydrocarbon fuels, Greenhouse Gas (GHG) emissions, Lignocellulosic biofuels

PB2016102978

Life-Cycle Assessment of Energy and Greenhouse Gas Effects of Soybean-Derived Biodiesel and Renewable Fuels.

Argonne Nat'l Lab., IL; Dept. of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy; Nat'l Renewable Energy Lab., Golden, CO. 2008, 101p

Related Categories/Subcategories

97K - Fuels
97R - Environmental Studies
68A - Air Pollution & Control
98B - Agricultural Economics
97B - Energy Use, Supply, & Demand

Keywords: Renewable fuels, Greenhouse effects, Soybean-derived fuels, Life cycle assessment,

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In 1985, a Memorandum of Understanding was signed by the four charter agencies and CENDI was established. From this small core of STI managers, CENDI has grown to its current membership, which represents the major science agencies, the national libraries, and agencies involved in the dissemination and long-term management of scientific and technical information.

Public Access Plans of U.S. Federal Agencies

Additional Public Access Plans will be posted as agencies release them.

In a memo released by the Office of Science and Technology Policy (OSTP) on February 22, 2013, each Federal agency with over \$100 million in annual conduct of research and development expenditures was directed to develop a plan to support increased public access to the results of research funded by the Federal Government. This included any results published in peer-reviewed scholarly publications that are based on research that directly arises from Federal funds, as defined in relevant OMB circulars (e.g., A-21 and A-11).

The full memo can be viewed at <https://www2.icsu-wds.org/files/ostp-public-access-memo-2013.pdf>.

Some agencies not subject to the OSTP memo are voluntarily developing Public Access Plans and are included below.

Available Plans

- **Agency for International Development (Oct. 1, 2014)**
<http://blog.usaid.gov/2014/10/announcing-usaids-open-data-policy/>
- **Department of Agriculture (Nov. 7, 2014)**
<http://www.usda.gov/documents/USDA-Public-Access-Implementation-Plan.pdf> / (PB2015102892)
- **Department of Commerce**
 - **National Institute of Standards and Technology (Apr. 3, 2015)**
<http://www.nist.gov/data/upload/NIST-Plan-for-Public-Access.pdf> / (PB2015104387)
 - **National Oceanic and Atmospheric Administration (Feb. 2015)**
http://docs.lib.noaa.gov/noaa_documents/NOAA_Research_Council/NOAA_PARR_Plan_v5.04.pdf / (PB2015102888)
- **Department of Defense (Feb. 2015)**
http://www.dtic.mil/dtic/pdf/DoD_PublicAccessPlan_Feb2015.pdf
- **Department of Energy (Jul. 24, 2014)**
http://energy.gov/sites/prod/files/2014/08/f18/DOE_Public_Access_Plan_FINAL.pdf / (PB2015101160)
- **Department of Health and Human Services**
<http://www.hhs.gov/open/public-access/guiding-principles.html>
 - **Agency for Healthcare Research and Quality (Feb. 2015)**
<http://www.ahrq.gov/funding/policies/publicaccess/index.html>
 - **Centers for Disease Control (Jan. 2015)**
http://www.cdc.gov/od/science/docs/Final-CDC-Public-Access-Plan-Jan-2015_508-Compliant.pdf / (PB2015102889)
 - **Food and Drug Administration (Feb. 27, 2015)**
<http://www.fda.gov/downloads/ScienceResearch/AboutScienceResearchatFDA/UCM435418.pdf> / (PB2015102887)
 - **National Institutes of Health (Feb. 26, 2015)**
<http://grants.nih.gov/grants/NIH-Public-Access-Plan.pdf> / (PB2015102891)
 - **Office of the Assistant Secretary for Preparedness and Response (Feb. 27, 2015)**
<http://www.phe.gov/Preparedness/planning/science/Documents/AccessPlan.pdf> / (PB2015102888)
- **Department of the Interior**
 - **US Geological Survey (Feb. 19, 2015)**
<http://www.usgs.gov/usgs-manual/im/IM-OSQI-2015-01.html>
- **National Aeronautics and Space Administration (Nov. 21, 2014)**
http://science.nasa.gov/media/medialibrary/2014/12/05/NASA_Plan_for_increasing_access_to_results_of_federally_funded_research.pdf
- **National Science Foundation (Mar. 18, 2015)**
<http://www.nsf.gov/pubs/2015/nsf15052/nsf15052.pdf> / (PB2015102890)
- **Veterans Administration (Feb. 1, 2015)**
http://www.research.va.gov/resources/policies/public_access.cfm

Send Feedback & Questions to: cendi.info@iiaweb.com

PB2016102979

Alternative Fuel Infrastructure Expansion: Costs, Resources, Production Capacity, and Retail Availability for Low-Carbon Scenarios.

National Renewable Energy Lab., Golden, CO.; Department of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy. 2013, 118p

The scenarios developed for this report represent a range of possible low-carbon fuel demand outcomes that would all reach the 2050 GHG reduction goal. The scenarios were developed to explore contrasts among infrastructure expansion needs for different fuels. Scenario trends to 2050 were developed using an internally consistent vehicle stock and fuel consumption analytic framework in a modified version of Argonne National Laboratory's VISION model (Argonne National Laboratory 2011).

These scenarios were developed using a bottom-up analytic approach, based on input assumptions that include projections of transportation services, changes in market share of different technologies, and technology improvement trends. They are not the result of an integrated economic or technology optimization model. Beyond these demand changes and efficiency improvements, the scenarios are distinct from each other with respect to assumptions about the types and volumes of lowcarbon fuels used for the remaining reductions to attain the 80% GHG reduction goal by 2050.

Major Subject Categories

Category Codes*/Title

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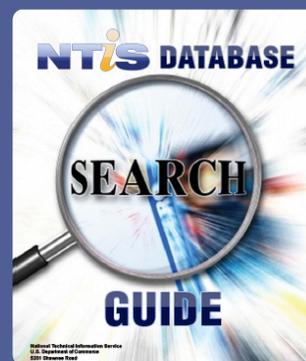
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Subject Category Codes/Classification

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

Any of the technical reports listed in this newsletter can be ordered directly from the National Technical Information Service, simply click on the title to go to the product detail page on NTIS.GOV.

If your organization is a subscriber to the National Technical Reports Library, most of the reports listed can be downloaded free there. For information on how to subscribe to NTRL, go to

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Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Web site. The list is in alphabetical order by title.

NTIS Number	Category	Title
PB2016102962	97	Advanced Petroleum Based Fuels Program and Renewable Diesel Program. Milestone Report: Technical Barriers to the Use of Ethanol in Diesel Fuel
PB2016102979	97	Alternative Fuel Infrastructure Expansion: Costs, Resources, Production Capacity, and Retail Availability for Low-Carbon Scenarios
PB2016102798	85	Alternative Transportation Refueling Infrastructure in the U.S. 2014: Status and Challenges
PB2016102971	97	Biodiesel Analytical Methods, August 2002–January 2004
PB2016102974	68	Biofuels Incentives: A Summary of Federal Programs, January 11, 2012
PB2016102963	97	Breaking the Biological Barriers to Cellulosic Ethanol: A Joint Research Agenda. A Research Roadmap Resulting from the Biomass to Biofuels Workshop. Held in Rockville, Maryland on December 7-9, 2005
PB2016102977	97	Breaking the Chemical and Engineering Barriers to Lignocellulosic Biofuels: Next Generation Hydrocarbon Bio refineries. A Research Roadmap for Making Lignocellulosic Biofuels a Practical Reality
PB2016102961	92	Careers in Biofuels
PB2016102969	68	Combustion and Emission Characteristics of Biodiesel with Methyl Butanoate as Surrogate
PB2016102967	97	Computational Investigation of Diesel and Biodiesel Combustion and NOx Formation in a Light-Duty Compression Ignition Engine
PB2016102799	98	Energy Life-Cycle Assessment of Soybean Biodiesel
PB2016102964	98	Enhanced Characteristics of Genetically Modified Switchgrass ('Panicum virgatum L.') for High Bio-fuel Production
PB2016102965	97	Evaluation Guide for Fuel Cell Deployments at EPA Superfund Sites
PB2016102960	97	High-Octane Mid-Level Ethanol Blend Market Assessment
PB2016102796	68	Impact of Biodiesel Impurities on the Performance and Durability of DOC, DPF and SCR Technologies
PB2016102968	98	Impacts of Ethanol Policy on Corn Prices: A Review and Meta-Analysis of Recent Evidence
PB2016102976	97	Industrial Biotechnology: Development and Adoption by the U.S. Chemical and Biofuel Industries. Investigation No. 332-481
PB2016102970	68	Land Use Changes and Consequent CO2 Emissions due to US Corn Ethanol Production: A Comprehensive Analysis
PB2016102978	97	Life-Cycle Assessment of Energy and Greenhouse Gas Effects of Soybean-Derived Biodiesel and Renewable Fuels
PB2016102972	97	Life-Cycle Costs of Alternative Fuels: Is Biodiesel Cost Competitive for Urban Buses?
PB2016102973	97	Long-Run Impact of Corn-Based Ethanol on the Grain, Oilseed, and Livestock Sectors: A Preliminary Assessment
PB2016102797	85	Needs Assessment for Alternative Fuel Vehicle Training in California
PB2016102795	97	Optimal Design of Sustainable Cellulosic Biofuel Supply Chains: Multi-objective Optimization Coupled with Life Cycle Assessment and Input-Output Analysis
PB2016102966	97	Survey of Non-Starch Ethanol and Renewable Hydrocarbon Biofuels Producers, 2015
PB2016102975	57	U.S. Carbon Cycle Science Plan

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