

ADA519649

Nitrogen and Phosphorus Biomass-Kinetic Model for *Chlorella vulgaris* in a Biofuel Production Scheme.

Air Force Inst. of Tech., Wright-Patterson AFB, OH. School of Engineering and Management.

2010, 111 p

Related Categories/Subcategories:

57C (Botany)

57Z (Zoology)

57K (Microbiology)

99D (Basic & Synthetic Chemistry)

97K (Fuels)

Keywords: Chlorella, Nitrogen, Phosphorus.

ADA524125

Corrosion-Related Consequences of Biodiesel in Contact with Natural Seawater.

Naval Research Lab., Stennis Space Center, MS. Oceanography Div.

2010, 19 p

Related Categories/Subcategories:

57K (Microbiology)

71N (Nonferrous Metals & Alloys)

97K (Fuels)

Keywords: Diesel fuels, Microorganisms, Sea water.

ADA530692

Anaerobic Metabolism of Biodiesel and Its Impact on Metal Corrosion.

Naval Research Lab. Detachment, Stennis Space Center, MS.

2010, 6 p

Related Categories/Subcategories:

57B (Biochemistry),

57H (Ecology),

71G (Corrosion & Corrosion Inhibition),

71N (Nonferrous Metals & Alloys)

097K (Fuels)

68D (Water Pollution & Control)

Keywords: Biodegradation, Diesel fuels, Chemical properties.

ADA553443

Enzymatic Fuel Cells: Integrating Flow-Through Anode and Air-Breathing Cathode into a Membrane-Less Biofuel Cell Design (Post print).

New Mexico Univ., Albuquerque. Dept. of Chemical and Nuclear Engineering.

2011, 8 p

Related Categories/Subcategories:

57B (Biochemistry)

97O (Miscellaneous Energy Conversion & Storage)

99B (Industrial Chemistry & Chemical Process Engineering)

Keywords: Biomass, Energy, Enzymes.



ADA546363

Application of Real Options Analysis in the Valuation of Investment in Biodiesel Production.

Construction Engineering Research Lab. (Army), Champaign, IL. Engineer Research and Development C Center.

2010, 7 p

Related Categories/Subcategories:

96 (Business & Economics)

97K (Fuels)

Keywords: Diesel fuels, Value, Investments.

ADA556484

Development of a Spherical Combustion Chamber for Measuring Laminar Flame Speeds in Navy Bulk Fuels and Biofuel Blends.

Naval Postgraduate School, Monterey, CA.

2011, 83 p

Related Categories/Subcategories:

81A (Combustion & Ignition)

97K (Fuels)

Keywords: Combustion chambers, Flames, Bombs.

Newsletter

National Technical Reports Library

Purpose: To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

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ADA556489

Cost Estimation of Biofuels for Naval Aviation: Budgeting for the Great Green Fleet.

Naval Postgraduate School, Monterey, CA. 2011, 79p

Related Categories/Subcategories:

96 (Business & Economics)

97K (Fuels)

Keywords: Biomass, Naval budgets, Cost analysis.

ADA556534

Federal Non-Tactical Vessel (FNTV) Biodiesel Initiative.

Corps of Engineers, Washington, DC.

2011, 11p

Related Categories/Subcategories:

97K (Fuels)

Keywords: Diesel fuels, Biomass, Boats.

ADA562379

Unintended Consequences: Potential Downsides of the Air Force's Conversion to Biofuels.

Air Univ., Maxwell AFB, AL. Air Force Research Inst.

2011, 7p

Related Categories/Subcategories:

57B (Biochemistry),

97K (Fuels)

74E (Logistics, Military Facilities, & Supplies)

Keywords: Air force, Biomass, Fuels.

ADA564238

Biodiesel: Paving the Way for DoD's Renewable Future.

National Defense Center for Energy and Environment, Johnstown, PA.

2011, 40p

Related Categories/Subcategories:

79D (Combat Vehicles)

97K (Fuels)

Keywords: Demonstrations, Diesel fuels, Ground vehicles.

Key to Database Fields Used

The following NTIS database fields are used in this short listing of recently acquired technical reports.

- **NTIS Order Number**
- **Title**
- **Source**
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- **Report Number/ISBN13** (if available)
- **Related Categories/Sub-categories** (where the document is also indexed)
- **Keywords**

RSS Feeds are available in your choice of NTIS Subject Category. For information use the RSS link on the NTIS Homepage and look for the Category RSS Feeds button.

**ADA566109**

Demonstration of Biodiesel in Non-deployed Ground Tactical Vehicles/Equipment.

Naval Facilities Engineering Service Center, Port Hueneme, CA.

2010, 14p

Related Categories/Subcategories:

97K (Fuels)

Keywords: Biomass, Diesel fuels, Military vehicles.

ADA567667

Challenge Facing Efforts to Encourage Military Use of Biodiesel as a 'Drop-in Fuel.

Kansas Univ., Lawrence.

2012, 43p

Related Categories/Subcategories:

97K (Fuels)

Keywords: Jet engine fuels, Low costs,

Specifications.

ADA573584

Making the Surface Fleet Green: The DOTMLPF, Policy, and Cost Implications of Using Biofuel in Surface Ships.

Naval Postgraduate School, Monterey, CA.

Graduate School of Business and Public Policy.

2012, 61p

Related Categories/Subcategories:

47A (Marine Engineering)

97K (Fuels)

74 (Military Sciences)

Keywords: Biomass, Diesel fuels, Fleets(Ships).

DE141118095

Effects of Deployment Investments on the Growth of the Biofuels Industry.

National Renewable Energy Lab., Golden, CO.

2013, 30p

Related Categories/Subcategories:

97K (Fuels),

97F (Fuel Conversion Processes),

97G (Policies, Regulations & Studies),

99B (Industrial Chemistry & Chemical Process Engineering)

Keywords: Biofuels, Biomass, Deployment.

DE141129923

Final Scientific Report, Biofuels Technology Project, June 1st, 2008 to June 30th, 2010.

Department of Energy, Washington, DC.

2010, 38p

Related Categories/Subcategories:

97 (Energy),

97G (Policies, Regulations & Studies)

97N (Solar Energy)

97O (Miscellaneous Energy Conversion & Storage)

Keywords: Biofuels, Technology assessment,

Biomass.

DE141111191

Production of Advanced Biofuels Via Liquefaction, Hydrothermal Liquefaction Reactor Design.

National Renewable Energy Lab., Golden, CO.

2013, 90p

Related Categories/Subcategories:

77I (Reactor Fuels & Fuel Processing)

77H (Reactor Engineering & Nuclear Power Plants)

Keywords: Reactors, Biofuels, Biomass.

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www.federallabs.org

DE141134142

Novel Biological Conversion of Hydrogen and Carbon Dioxide Directly into Biodiesel, Cooperative Research and Development, Final Report.

National Renewable Energy Lab., Golden, CO.

2014, 4p

Related Categories/Subcategories:

97F (Fuel Conversion Processes),

97K (Fuels)

99B (Industrial Chemistry & Chemical Process Engineering)

Keywords: Bioconversion, Hydrogen, Carbon dioxide.

DE2010974464

Title: Analysis of Biodiesel Blends Samples Collected in the United States in 2008.

National Renewable Energy Lab., Golden, CO. 2010, 25p

Related Categories/Subcategories:

97K (Fuels)

99B (Industrial Chemistry & Chemical Process Engineering)

Keywords: Biomass fuels, Petroleum, Energy conservation.

DE2010984182

Title: Biodiesel Vehicle and Infrastructure Codes and Standards Citations.

Department of Energy, Washington, DC.

2010, 21p

Related Categories/Subcategories:

97K (Fuels)

85H (Road Transportation)

Keywords: Diesel fuels, Biomass fuels, Vehicles.

NTRL Increases Access to Federal S&T Reports

NTIS has launched greater access to federally funded science & technology information and reports. Starting in October 2014, U.S. citizens have free access to all electronically-available documents in the NTIS collection.

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Greg Guthrie, Program Manager
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10-day Trial Period	-	-	-	✓

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>
- **Department of Commerce**
 - **National Institute of Standards and Technology (Apr. 3, 2015)**
<http://www.nist.gov/open/upload/NIST-Plan-for-Public-Access.pdf>
 - **National Oceanic and Atmospheric Administration (Feb. 2015)**
http://docs.lib.noaa.gov/noaa_documents/NOAA_Research_Council/NOAA_PARR_Plan_v5.04.pdf
- **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
- **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
 - **Food and Drug Administration (Feb. 27, 2015)**
<http://www.fda.gov/downloads/ScienceResearch/AboutScienceResearchatFDA/UCM435418.pdf>
 - **National Institutes of Health (Feb. 26, 2015)**
<http://grants.nih.gov/grants/NIH-Public-Access-Plan.pdf>
 - **Office of the Assistant Secretary for Preparedness and Response (Feb. 27, 2015)**
<http://www.phe.gov/Preparedness/planning/science/Documents/AccessPlan.pdf>
- **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>
- **Veterans Administration (Feb. 1, 2015)**
http://www.research.va.gov/resources/policies/public_access.cfm

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DE2010974902

Biofuels for Advancing America: Developing Cost-Competitive, Sustainable Biofuels for Today's Transportation Infrastructure. National Advanced Biofuels Consortium.

National Renewable Energy Lab., Golden, CO. 2010, 2p

Related Categories/Subcategories:

97K (Fuels), 97G (Policies, Regulations & Studies) 97R (Environmental Studies)

Keywords: Biofuels, NREL, National security.

DE2010979832

Life Cycle Assessment Comparing the Use of *Jatropha* Biodiesel in the Indian Road and Rail Sectors.

National Renewable Energy Lab., Golden, CO. 2010, 143p

Related Categories/Subcategories:

97K (Fuels), 97B (Energy Use, Supply, & Demand), 85 (Transportation) 68 (Environmental Pollution & Control),

Keywords: Life cycle assessment, Biodiesel, Fuel consumption.

DE20111008109

Biofuel Impacts on Water.

Sandia National Labs., Albuquerque, NM. 2011, 31p

Related Categories/Subcategories:

97K (Fuels) 97F (Fuel Conversion Processes) 97R (Environmental Studies)

Keywords: Biofuels, , Production, Ethanol.

DE141136209

Biodiesel Basics.

Department of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy. 2014, 2p

Related Categories/Subcategories:

97K (Fuels)

Keywords: Diesel fuels, Animal fats, Carbon.

PB2010110544

Biodiesel Fuel Feasibility Study.

Pittsburgh Univ., PA. 2010, 247p

Related Categories/Subcategories

97K (Fuels) 68A (Air Pollution & Control) 85H (Road Transportation)

Keywords: Diesel fuels, Feasibility study, Data collection.

DE20111011221

Trojan Horse Strategy for Deconstruction of Biomass for Biofuels Production.

Sandia National Labs., Albuquerque, NM 2011, 50p

Related Categories/Subcategories:

97K (Fuels) 99B (Industrial Chemistry & Chemical Process Engineering), 85H (Road Transportation)

Keywords: Biomass, Production, Renewable energy sources.

DE2011994017

Techno-Economic Analysis of Biofuels Production Based on Gasification.

National Renewable Energy Lab., Golden, CO. 2010, 168p

Related Categories/Subcategories:

43E (Energy) 97K (Fuels) 97F (Fuel Conversion Processes) 99B (Industrial Chemistry & Chemical Process Engineering) 97G (Policies, Regulations & Studies) 96A (Domestic Commerce, Marketing, & Economics)

Keywords: Biofuels; Gasification; Economic analysis.

DE20121031032

Center of Excellence for Hazardous Materials Management (CEHMM) Algae to Biodiesel Project. Final Technical Report.

Department of Energy, Washington, DC. 2011, 19p

Related Categories/Subcategories:

68C (Solid Wastes Pollution & Control) 68D (Water Pollution & Control) 97K (Fuels)

98 (Agriculture & Food)

Keywords: Hazardous materials, Waste management, Algae.

PB2013103279

Development of Nanocatalysts for the Synthesis of Biofuels from Biomass Derived Syngas. Idaho Univ., Moscow. National Inst. for Advanced Transportation Technology.

2012, 21p

Related Categories/Subcategories:

97K (Fuels) 99B (Industrial Chemistry & Chemical Process Engineering) 99D (Basic & Synthetic Chemistry)

Keywords: Biofuels, Gasification, Biomass fuels.

PB2010111997

Biodiesel Blend Low-Temperature Performance Validation (Phase 2).

Coordinating Research Council, Inc., Alpharetta, GA. 2010, 44p

Related Categories/Subcategories:

81J (Reciprocation & Rotating Combustion Engines)

97K (Fuels)

46 (Physics)

Keywords: Biodiesel blends, All-weather chassis dynamometer, Kinematic viscosity.

DE141136209

Biodiesel Basics.

Department of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy.

“ Biodiesel is a domestically produced, renewable fuel that can be manufactured from new and used vegetable oils, animal fats, and recycled restaurant grease. Biodiesels physical properties are similar to those of petroleum diesel, but it is a cleaner burning renewable alternative.

Using biodiesel in place of petroleum diesel significantly reduces lifecycle carbon emissions. Research shows that it also reduces emissions of toxic air pollutants in older on-road vehicles and in many off-road applications change.”

PB2011105325

Measurement and Control Strategies for Sterol Glucosides to Improve Biodiesel Quality: Isolation and Characterization of Acylated Steryl Glucosides in Oilseed Crops of the Pacific Northwest.

Idaho Univ., Moscow. National Center for Advanced Transportation Technology 2010, 22p

Related Categories/subcategories:

- 97K (Fuels)
- 97F (Fuel Conversion Processes)
- 99D (Basic & Synthetic Chemistry)

Keywords: Biodiesel fuels production, Alternative fuels, Fuel processing.

PB2012109487

Determine if Ohmsett is Suitable for Researching, Testing and Training in Biofuel Spill Response.

Ross (S.L.) Environmental Research Ltd., Ottawa (Ontario)

2010, 43p

Related Categories/Subcategories:

- 97K (Fuels)
- 97R (Environmental Studies)
- 68D (Water Pollution & Control)
- 99B (Industrial Chemistry & Chemical Process Engineering)

Keywords: Biofuels, Oil spills, Emergency response.

PB2014100628

Review of Life-Cycle Based Tools Used to Assess the Environmental Sustainability of Biofuels in the United States.

Environmental Protection Agency, Cincinnati, OH. Office of Research and Development 2013, 61p

Related Categories/Subcategories:

- 97K (Fuels)
- 97G (Policies, Regulations & Studies)
- 68 (Environmental Pollution & Control)

Keywords: Fuels, Carbon, Decision making.

PB2015101527

Combustion Chemistry of Biodiesel for Use in Urban Transport Buses: Experiment and Modeling. Mineta Transportation Inst., San Jose, CA. Coll. of Business.

2014, 108 pgs

Related Categories/Subcategories:

- 85 (Transportation)
- 68A (Air Pollution & Control)
- 97K (Fuels)

Keywords: Biodiesel, Buses, Combustion.

Major Subject Categories

Category Codes*/Title

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* Scope Notes define the specific topical content for each category;

<http://www.ntis.gov/assets/pdf/scopenotes.pdf>

** Quantities represent each new report assigned on average to 3-5 categories.

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.

PB2015102178

Quantifying Biodiesel Fuel Effects on Light-Duty Diesel Engine Particle Composition.
Vermont Univ., Burlington. Transportation Research Center.
2014, 66 pgs

Related Categories/subcategories:

97K (Fuels)
97F (Fuel Conversion Processes)
81A (Combustion & Ignition)
68A (Air Pollution & Control)
85 (Transportation), 99A (Analytical Chemistry)
Keywords: Biodiesel, Buses, Combustion

PB2015101527

Combustion Chemistry of Biodiesel for Use in Urban Transport Buses: Experiment and Modeling.
Mineta Transportation Inst., San Jose, CA. Coll. of Business.
2014, 108 pgs

Related Categories/subcategories

85 (Transportation)
68A (Air Pollution & Control)
97K (Fuels)
Keywords: Biodiesel, Buses, Combustion

PB2014108266

Monthly Biodiesel Production Report, July 2014 with Data for May 2014.
Energy Information Administration, Washington, DC.
2014, 10 pgs

Related Categories/Subcategories:

97K (Fuels)
97G (Policies, Regulations & Studies)
96A (Domestic Commerce, Marketing, & Economics)
Keywords: Diesel fuels, Petroleum Market, Production,

PB2014107994

Biofuel Transportation Analysis Tool: Description, Methodology, and Demonstration Scenarios.
John A. Volpe National Transportation Systems Center, Cambridge, MA.
2014, 83 pgs

Related Categories/subcategories:

97K (Fuels)
97B (Energy Use, Supply, & Demand)
85 (Transportation)
68A (Air Pollution & Control)
Keywords: Biomass, Fuels, Transportation systems

PB2014107675

Monthly Biodiesel Production Report, June 2014 With Data for April 2014.
Energy Information Administration, Washington, DC.
2014, 10 pgs

Related Categories/subcategories:

97K (Fuels)
97G (Policies, Regulations & Studies)
96A (Domestic Commerce, Marketing, & Economics)
Keywords: Diesel fuels, Petroleum Market, Production

PB2014107429

In Situ Transesterification of Microalgal Oil to Produce Algal Biodiesel. Final Report.
Idaho Univ., Moscow. National Inst. for Advanced Transportation Technology.
2014, 22 pgs

Related Categories/subcategories:

97K (Fuels)
57B (Biochemistry)
57K (Microbiology)
Keywords: Algae, Oils, Microorganisms

PB2014107143

Monthly Biodiesel Production Report, May 2014 with Data for March 2014.
Energy Information Administration, Washington, DC.
2014, 10 pgs

Related Categories/subcategories:

97K (Fuels)
97G (Policies, Regulations & Studies)
96A (Domestic Commerce, Marketing, & Economics)
Keywords: *Diesel fuels, Petroleum Market, Production,

PB2014106049

Nexus of Biofuels, Climate Change, and Human Health. Workshop Summary. Held on January 24-25, 2013.
Institute of Medicine, Washington, DC.
2014, 200 pgs

Related Categories/subcategories:

97K (Fuels)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
57U (Public Health & Industrial Medicine)
Keywords: Biofuels, Climate change, Human health

Photo: Architect of the Capitol



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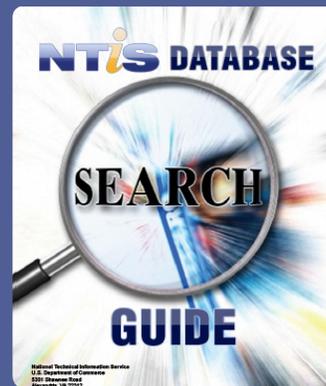
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If your organization is a subscriber to the National Technical Reports Library, most of the reports listed can be downloaded free there. For information on how to subscribe to NTRL, go to <http://www.ntis.gov/products/ntrl/>.

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
ADA519649	Nitrogen and Phosphorus Biomass-Kinetic Model for <i>Chlorella vulgaris</i> in a Biofuel Production Scheme.	57
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DE141134142	Novel Biological Conversion of Hydrogen and Carbon Dioxide Directly into Biodiesel, Cooperative Research and Development, Final Report.	97
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DE2010974464	Analysis of Biodiesel Blends Samples Collected in the United States in 2008.	97
DE2010974902	Biofuels for Advancing America: Developing Cost-Competitive, Sustainable Biofuels for Today's Transportation Infrastructure. National Advanced Biofuels Consortium.	97
DE2010979832	Life Cycle Assessment Comparing the Use of <i>Jatropha</i> Biodiesel in the Indian Road and Rail Sectors.	97
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