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October 17, 2012

Tim Byrne, Senior Outreach Librarian
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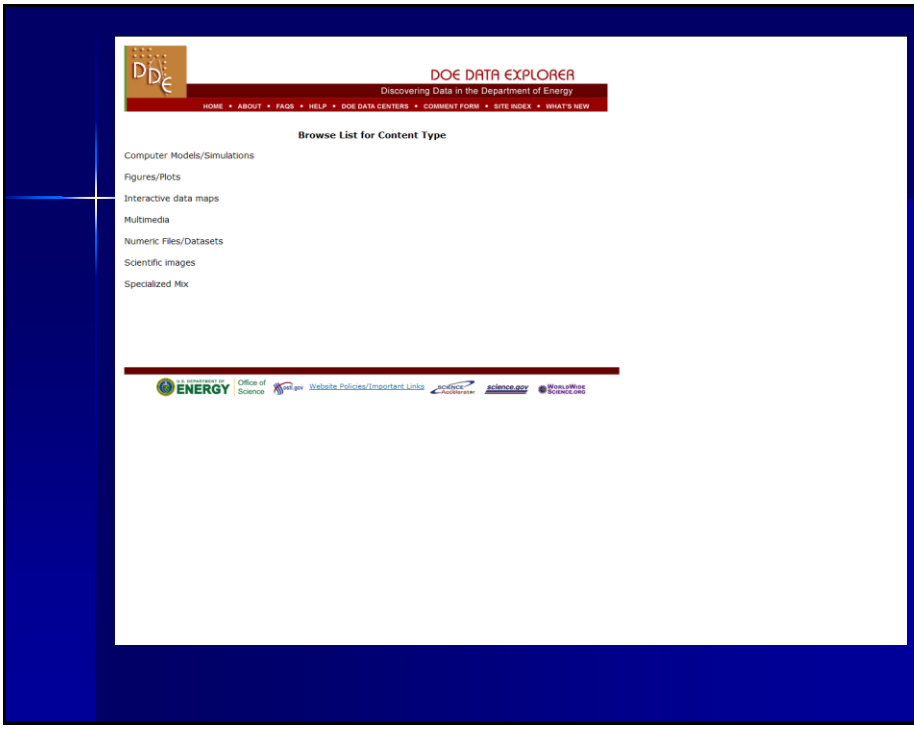
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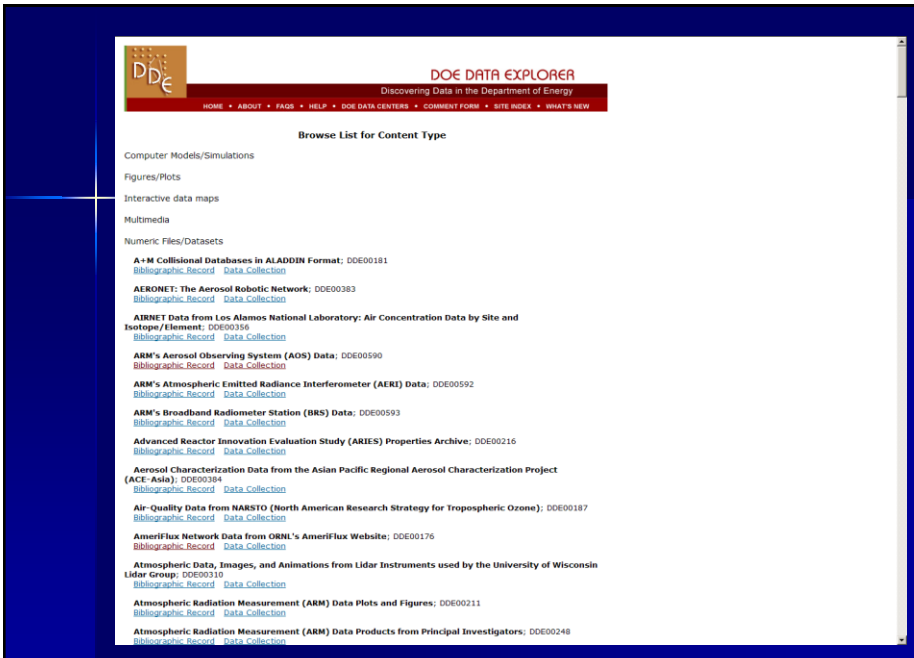
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Collection Citation

Collection Title	A+M Collisional Databases in ALADDIN Format
Collection Sponsor	USDOE - Office of Science (SC)
Other Sponsors	International Atomic Energy Agency (IAEA)
DOE Data Center	Controlled Fusion Atomic Data Center (CFADC)
Host Website	Controlled Fusion Atomic Data Center (CFADC)
Other Related Organizations	Oak Ridge National Laboratory (ORNL)
Main Content Type	Numeric Files/Datasets
Subject Categories	70 - PLASMA PHYSICS AND FUSION TECHNOLOGY; 74 - ATOMIC AND MOLECULAR PHYSICS
Keywords	ALADDIN; Electron collisions; Cross sections; Ions; Atoms; Atomic and molecular collisions; Particle surface interaction
Description	ALADDIN(A Labelled Atomic Data Interface)is a database system developed in order to provide a standard and flexible format and interface for the exchange and management of atomic, molecular and plasma-material interaction data of interest to fusion research. As part of the Atomic and Molecular Data Information System (AMDIS), introduced by the IAEA Atomic and Molecular Data Unit, the ALADDIN interface is available on-line. Twelve databases from DOE and IAEA sources are available from the CFADC website under the heading A+M Collisional Databases.
DDE Number	DDE00181
Special Interface	No
Registration Required	No

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ALADDIN data files

The list of recommended databases is given below. Those marked by an asterisk (*) are in ALADDIN format and can be accessed on-line at the IAEA. Connect to the IAEA via telnet to:

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You can also download them directly through your browser from this site. For example, if you are using NCSA Mosaic, single click on the file number below and your browser will view the appropriate *.txt* file. You can then pull down on the *File* widget of the browser and use *Save as* to download the file to your local host.

A+M Collisional Databases

1.* "Atomic and Molecular Data for Fusion, Part I - Recommended Cross Sections and Rates for Electron Ionization of Light Atoms and Ions" K. L. Bell, H. B. Gilbody, J. G. Hughes, A. E. Kingston, F. J. Smith. J. Phys. Chem. Ref. Data 12, 891 (1983). *[This file contains databases 1 and 5]*

2.* "Recommended Data on Excitation of Carbon and Oxygen Ions by Electron Collisions" Y. Itikawa, S. Hara, T. Kato, S. Nakazaki, M. S. Pindzola, D. H. Crandall. At. Data Nucl. Data Tables (ADNDT) 33, 149 (1985).

3.* "Recommended Data on Atomic Collision Processes Involving Iron and Its Ions" C. Bottcher, D. C. Griffin, H. T. Hunter, R. K. Janev, A. E. Kingston, M. A. Lennon, R. A. Phaneuf, M. S. Pindzola, S. M. Younger. Nucl. Fusion, Special Supplement (1987).

4.* "Collisions of Carbon and Oxygen Ions with Electrons, H, H2 and He." Atomic Data for Controlled Fusion Research, Vol. V. R. A. Phaneuf, R. K. Janev, M. S. Pindzola (Editors). Report ORNL-6090/V5, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37831 USA (1987).

5.* "Atomic and Molecular Data for Fusion, Part II - Recommended Cross Sections and Rates for Electron Ionization of Light Atoms and Ions: Fluorine to Nickel." M. A. Lennon, K. L. Bell, H. B. Gilbody, J. G. Hughes, A. E. Kingston, M. J. Murray, F. J. Smith. J. Phys. Chem. Ref. Data 17, 1285 (1988). *[This file contains databases 1 and 5]*

6.* "Recommended Data for Excitation Rate Coefficients of Helium Atoms and Helium-like Ions by Electron Impact." T. Kato and S. Nakazaki. At. Data Nucl. Data Tables (ADNDT) 42, 313 (1989).

7.* "Elementary Processes in Hydrogen-Helium Plasmas" R. K. Janev, W. D. Langer, K. Evans, Jr., D. E. Post, Jr., Springer-Verlag (1987).

8.* "Collisions of H, H2, He and Li Atoms and Ions with Atoms and Molecules." Vol. 1. C. F. Barnett (Editor). Report ORNL-6086/VI, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37831, USA (1990).

9.* "Atomic and Molecular Data for Fusion, Part III. Recommended Cross Sections and Rates for Electron Ionization of Atoms and Ions: Copper to Uranium." M. J. Higgins, M. A. Lennon, J. G. Hughes, K. L. Bell, H. B. Gilbody, A. E. Kingston, F. J. Smith. Culham Report, CLM-R294, Abingdon, Oxfordshire, U.K. (1989).

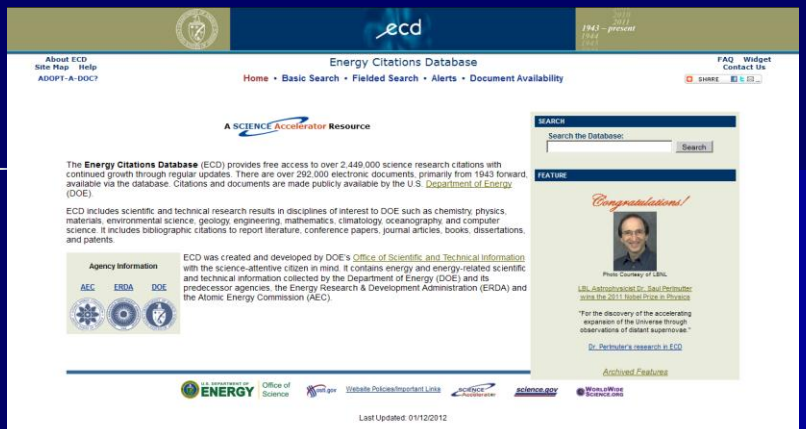
10. "Collisional Processes of Hydrocarbons in Hydrogen Plasmas." A. B. Ehrhardt, W. D. Langer. Report PPL-2477, Plasma Physics Laboratory, Princeton University, Princeton, New Jersey, USA (1988).

11.* "Recommended Cross Sections for Collision Processes of Hydrogen Ground-State and Excited Atoms with Electrons, Protons and Multiply Charged Atoms." R. K. Janev, J. J. Smith. Atomic and Plasma-Material Data for Fusion, a supplement to the journal Nuclear Fusion, Vol.4 (1993).

12. Volume 3 of the Atomic and Plasma-Material Interaction Data for Fusion, a supplement of the journal Nuclear Fusion (1992), contains several articles with recommended data for different atomic collision processes of helium atoms and of beryllium and boron atoms and ions.

Particle-Surface Interaction Databases

1. "Energy Dependence of Ion-Induced Sputtering Yields of Monatomic Solids in the Low Energy Region." N. Matsunami, Y. Yamamura, N. Itoh, H. Tawara, T. Kawamura. Report IPPJ-AM-52, Institute of Plasma Physics (National Institute for Fusion Science), Nagoya, Japan (1987).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ECD includes scientific and technical research results in disciplines of interest to DOE such as chemistry, physics, materials, environmental science, geology, engineering, mathematics, climatology, oceanography, and computer science. It includes bibliographic citations to report literature, conference papers, journal articles, books, dissertations, and patents.
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ECD was created and developed by DOE's Office of Scientific and Technical Information with the science-attentive citizen in mind. It contains energy and energy-related scientific and technical information collected by the Department of Energy (DOE) and its predecessor agencies, the Energy Research & Development Administration (ERDA) and the Atomic Energy Commission (AEC).
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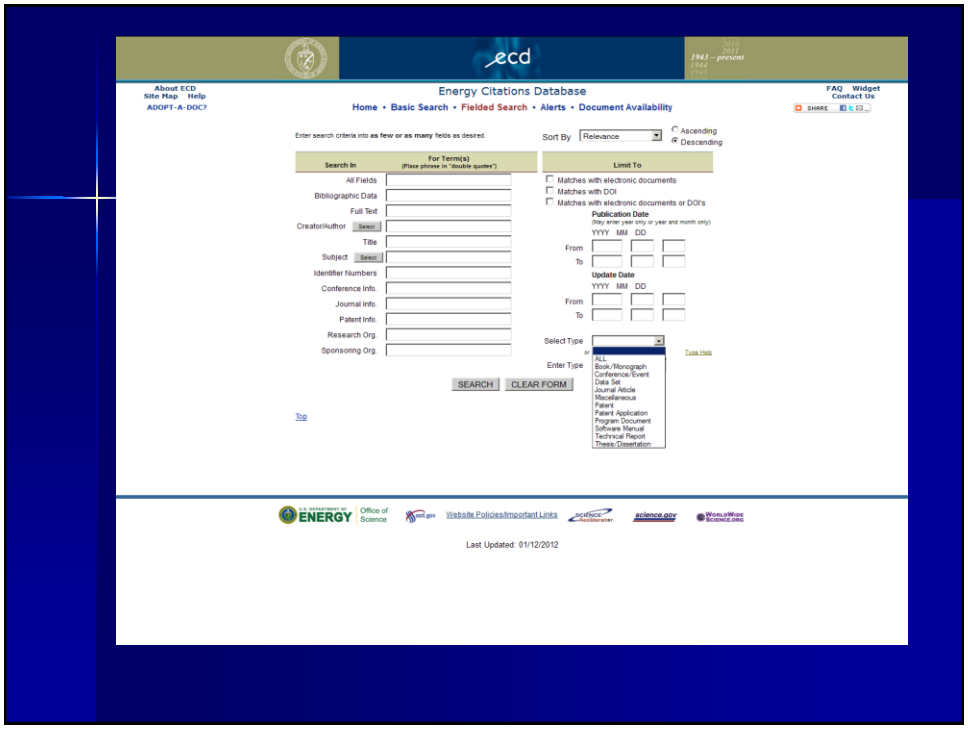
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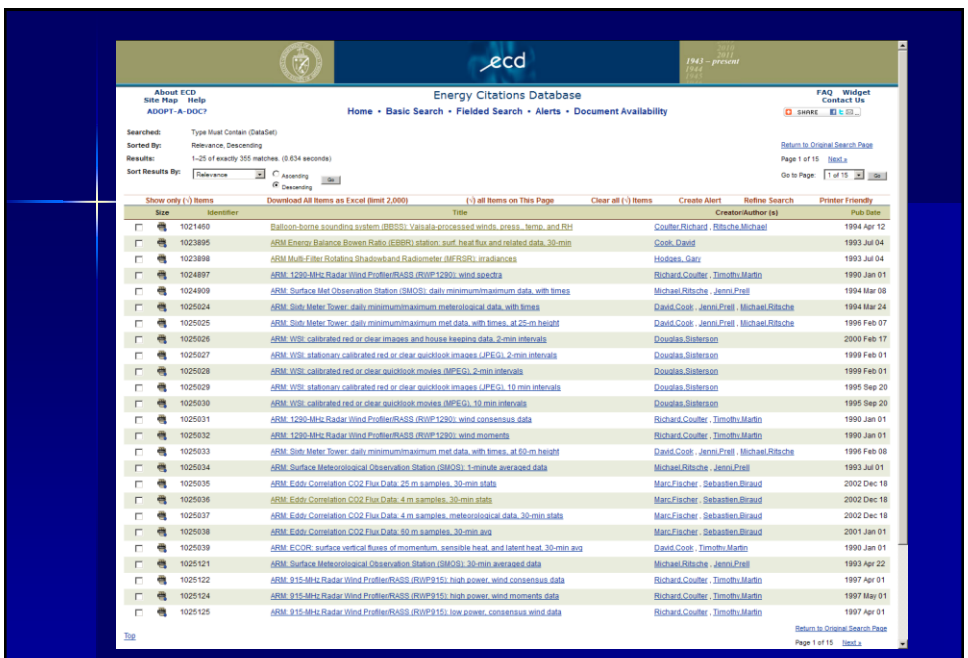
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1023898 ARM Multi-Filter Rotating Shadowband Radiometer (MFRSR): irradiances Hodges, Gary 1993 Jul 04
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1025025 ARM: Sixty Meter Tower: daily minimum/maximum met data, with times, at 25-m height David.Cook , Jenni.Prell , Michael.Ritsche 1996 Feb 07
1025026 ARM: WSI: calibrated red or clear images and house keeping data, 2-min intervals Douglas.Sisterson 2000 Feb 17
1025027 ARM: WSI: stationary calibrated red or clear quicklook images (JPEG), 2-min intervals Douglas.Sisterson 1999 Feb 01
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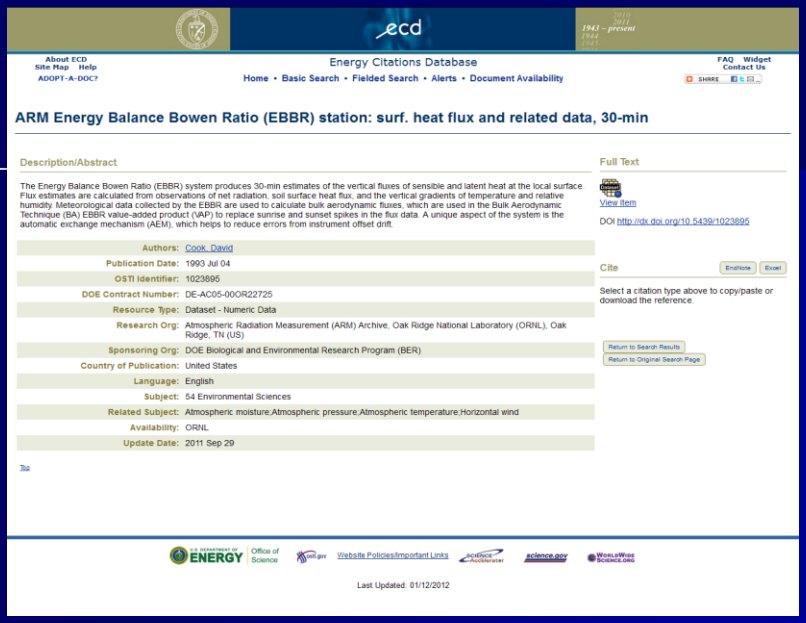

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Authors:	Cook, David
Publication Date:	1993 Jul 04
OSTI Identifier:	1023895
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Resource Type:	Dataset - Numeric Data
Research Org:	Atmospheric Radiation Measurement (ARM) Archive, Oak Ridge National Laboratory (ORNL), Oak Ridge, TN (US)
Sponsoring Org:	DOE Biological and Environmental Research Program (BER)
Country of Publication:	United States
Language:	English
Subject:	54 Environmental Sciences
Related Subject:	Atmospheric moisture;Atmospheric pressure;Atmospheric temperature;Horizontal wind
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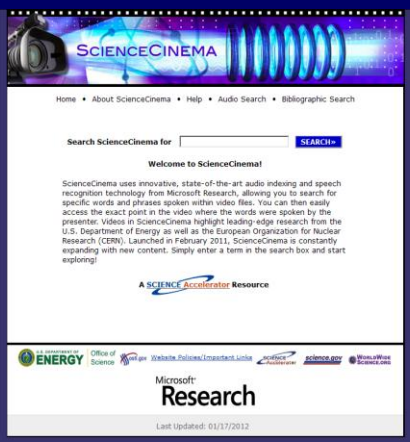


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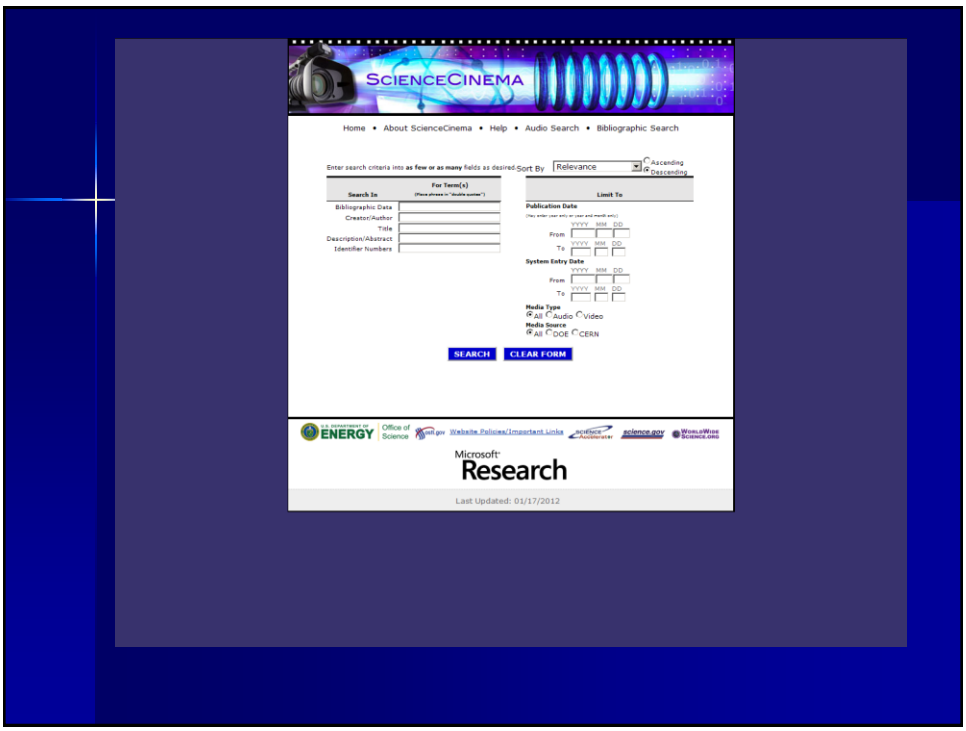
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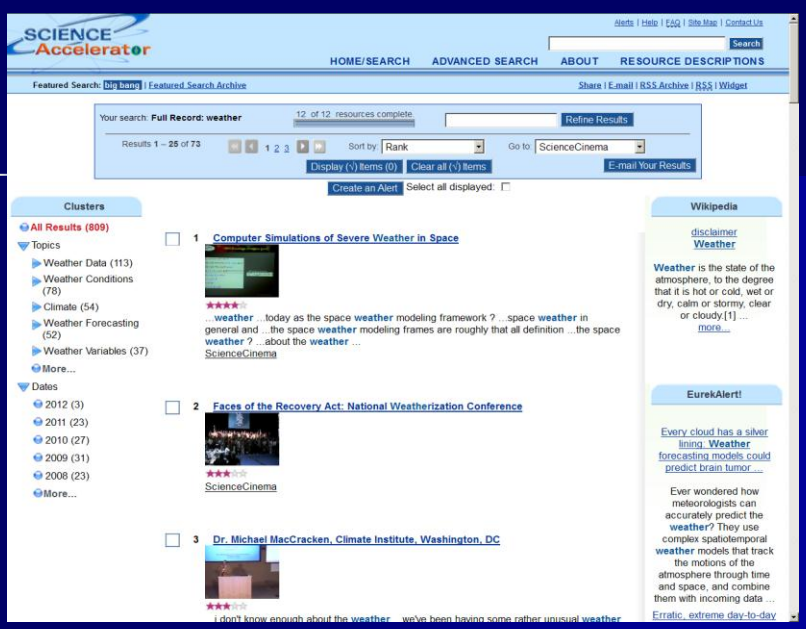
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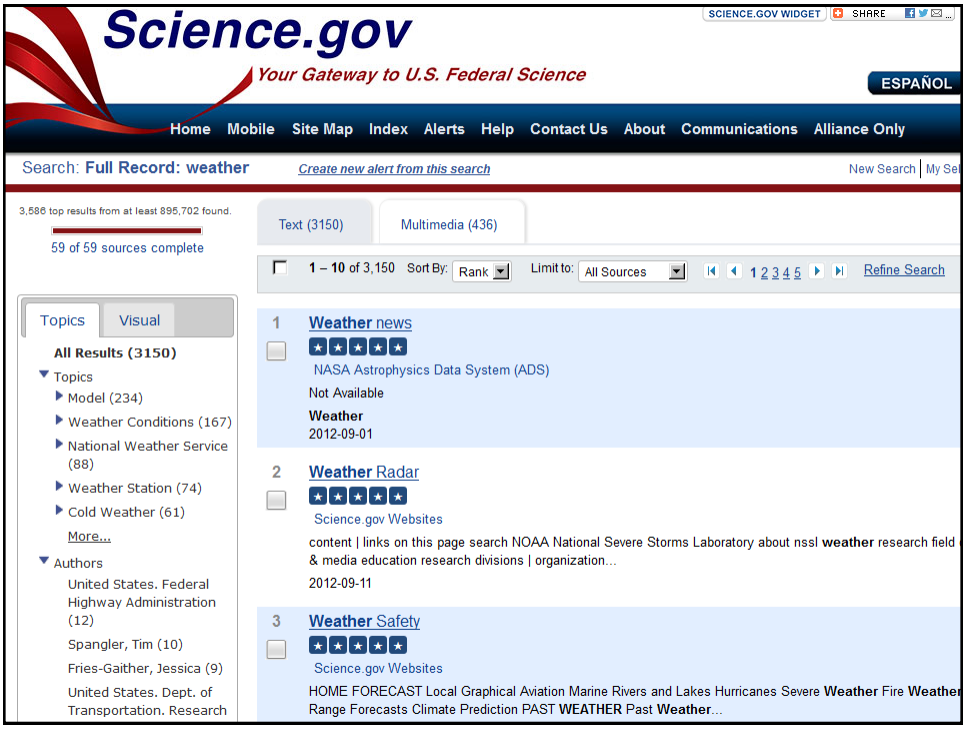
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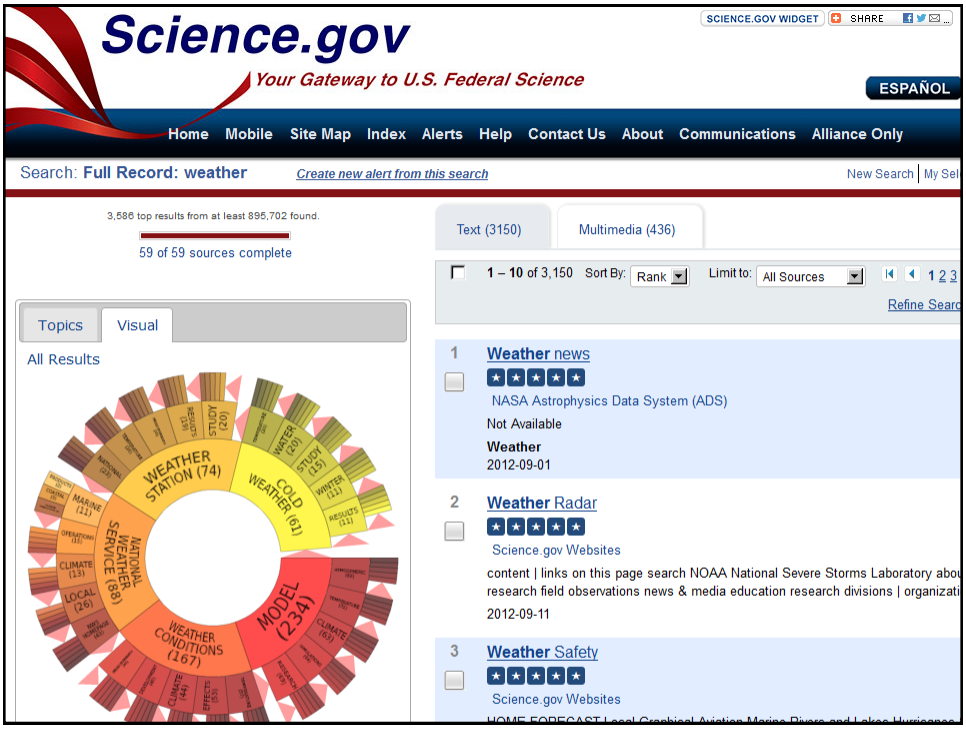
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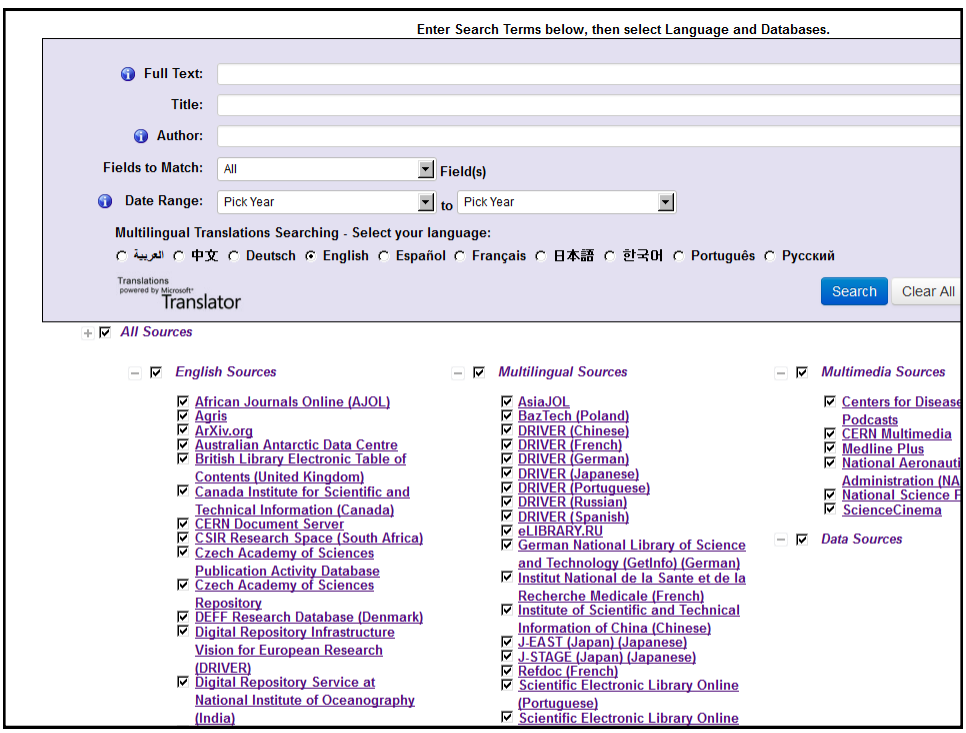
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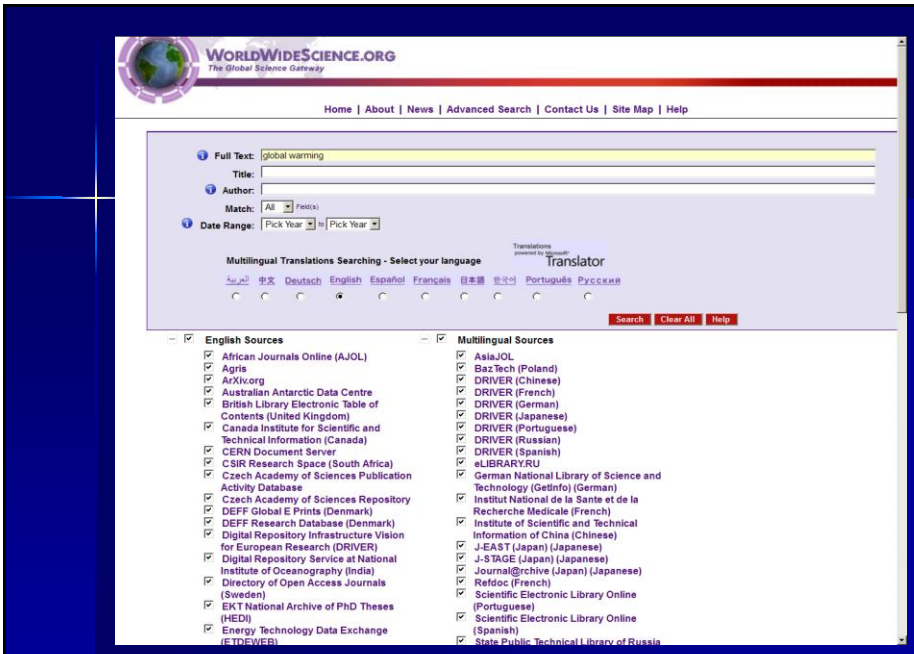
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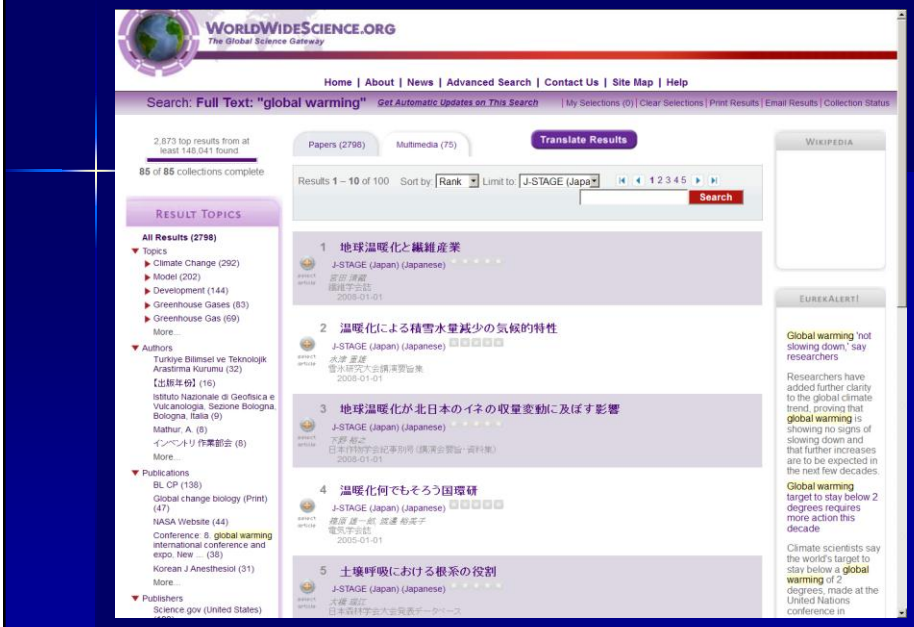
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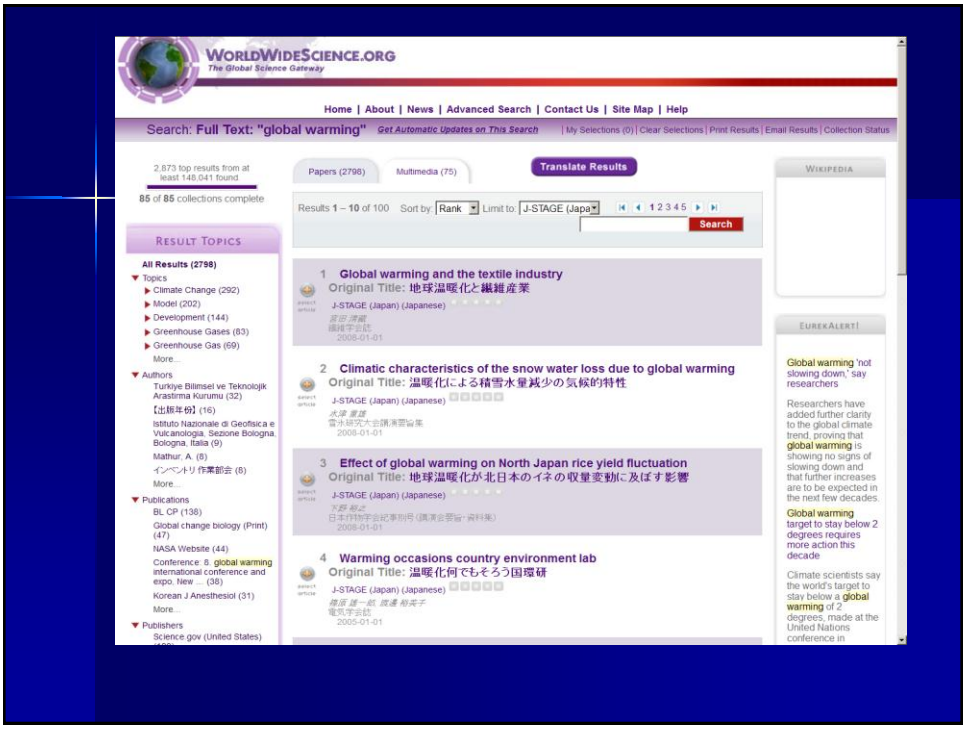
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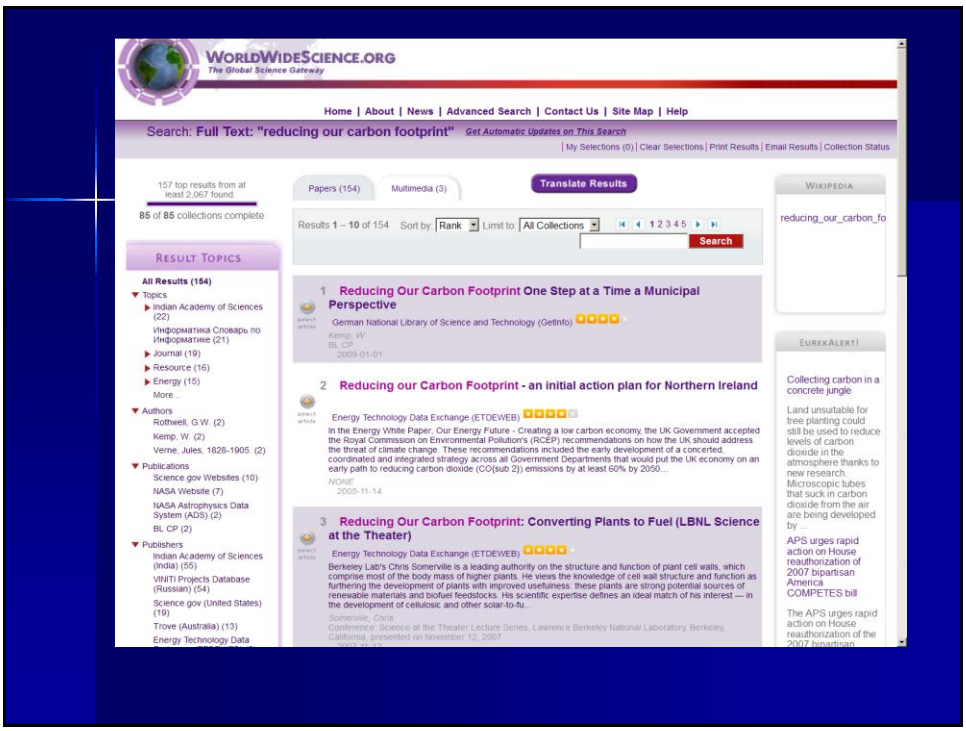
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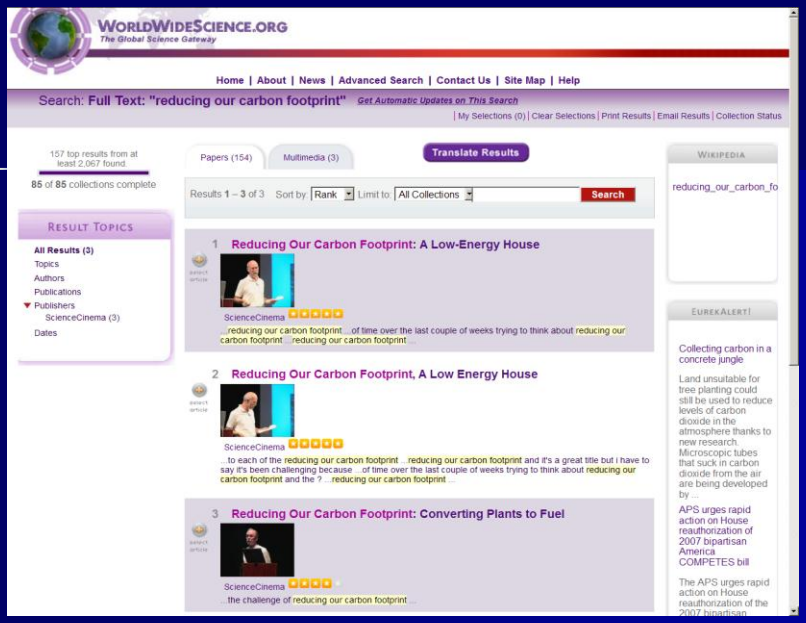

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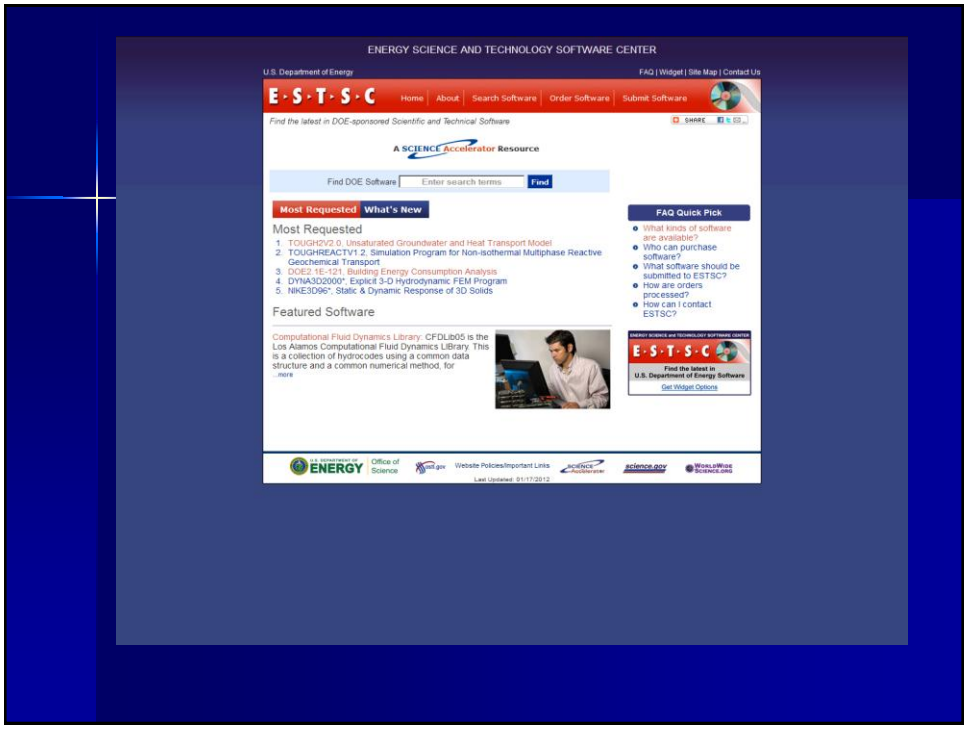
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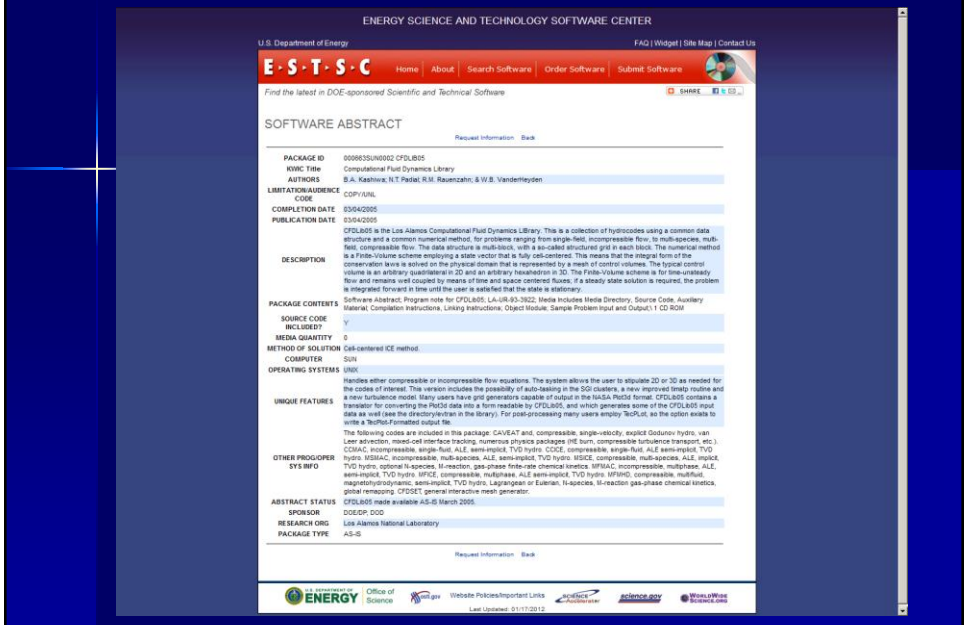
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PACKAGE ID 000863SUN0002 CFDLib05
KWIC Title Computational Fluid Dynamics Library
AUTHORS B.A. Kashiwa; N.T. Padial; R.M. Rauenzahn; & W.B. VanderHeyden
LIMITATION/AUDIENCE CODE COPY/UNL
COMPLETION DATE 03/04/2005
PUBLICATION DATE 03/04/2005
DESCRIPTION CFDLib05 is the Los Alamos Computational Fluid Dynamics LIBrary. This is a collection of hydrocodes using a common data structure and a common numerical method, for problems ranging from single-field, incompressible flow, to multi-species, multi-field, compressible flow. The data structure is multi-block, with a so-called structured grid in each block. The numerical method is a Finite-Volume scheme employing a state vector that is fully cell-centered. This means that the integral form of the conservation laws is solved on the physical domain that is represented by a mesh of control volumes. The typical control volume is an arbitrary quadrilateral in 2D and an arbitrary hexahedron in 3D. The Finite-Volume scheme is for time-unsteady flow and remains well coupled by means of time and space centered fluxes; if a steady state solution is required, the problem is integrated forward in time until the user is satisfied that the state is stationary.
PACKAGE CONTENTS Software Abstract; Program note for CFDLib05; LA-UR-93-3922; Media Includes Media Directory; Source Code; Auxiliary Material; Compilation Instructions; Linking Instructions; Object Module; Sample Problem Input and Output;\ 1 CD ROM
SOURCE CODE INCLUDED? Y
MEDIA QUANTITY 0
METHOD OF SOLUTION Cell-centered ICE method.
COMPUTER SUN
OPERATING SYSTEMS UNIX
UNIQUE FEATURES Handles either compressible or incompressible flow equations. The system allows the user to stipulate 2D or 3D as needed for the codes of interest. This version includes the possibility of auto-tasking in the SGI clusters, a new improved tmatp routine and a new turbulence model. Many users have grid generators capable of output in the NASA PlotId format. CFDLib05 contains a translator for converting the PlotId data into a form readable by CFDLib05, and which generates some of the CFDLib05 input data as well (see the directory/extran in the library). For post-processing many users employ TecPLot, so the option exists to write a TecPlot-Formatted output file.
OTHER PROG/OPER SYS INFO The following codes are included in this package. CAVEAT and, compressible, single-velocity, explicit Godunov hydro, van Leer advection, mixed-cell interface tracking, numerous physics packages (HE burn, compressible turbulence transport, etc.). CCMAC, incompressible, single-fluid, ALE, semi-implicit, TVD hydro. CODE, compressible, single-fluid, ALE semi-implicit, TVD hydro. MSIMAC, incompressible, multi-species, ALE, semi-implicit, TVD hydro. MSICE, compressible, multi-species, ALE, implicit, TVD hydro, optional N-species, M-reaction, gas-phase finite-rate chemical kinetics. MFIMAC, incompressible, multiphase, ALE, semi-implicit, TVD hydro. MFICE, compressible, multiphase, ALE semi-implicit, TVD hydro. MFIMHD, compressible, multifluid, magnetohydrodynamic, semi-implicit, TVD hydro. Lagrangean or Eulerian, N-species, M-reaction gas-phase chemical kinetics, global remapping. CFDSET, general interactive mesh generator.
ABSTRACT STATUS CFDLib05 made available AS-IS March 2005.
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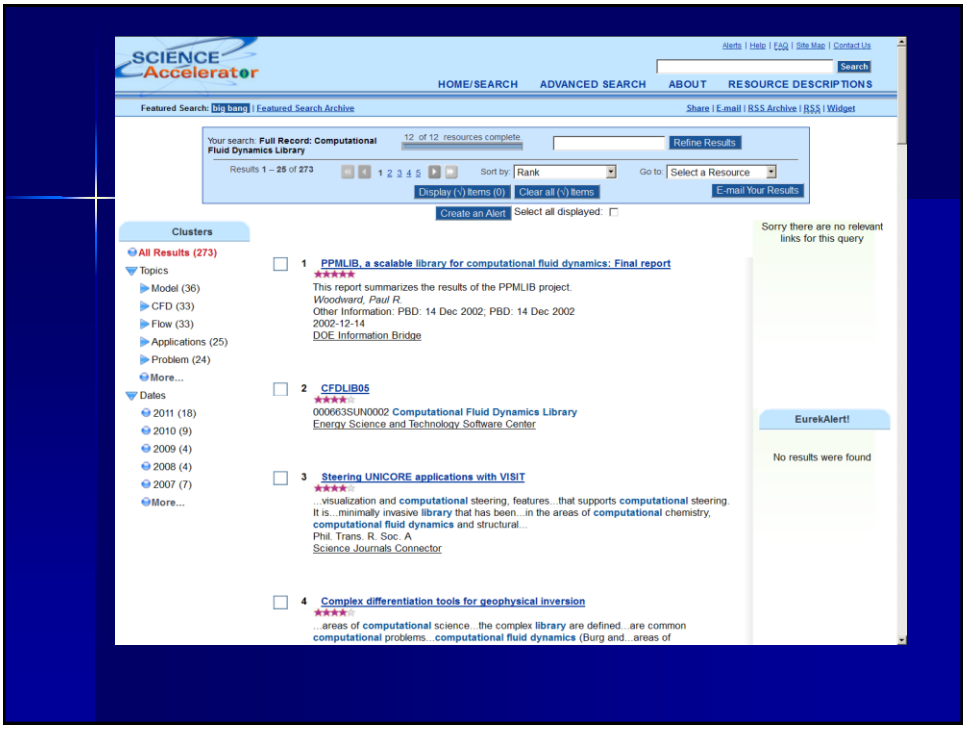
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1 PPMLIB, a scalable library for computational fluid dynamics: Final report
This report summarizes the results of the PPMLIB project.
Woodward, Paul R.
Other Information: PBD: 14 Dec 2002; PBD: 14 Dec 2002
2002-12-14
DOE Information Bridge
2 CFDLIB05
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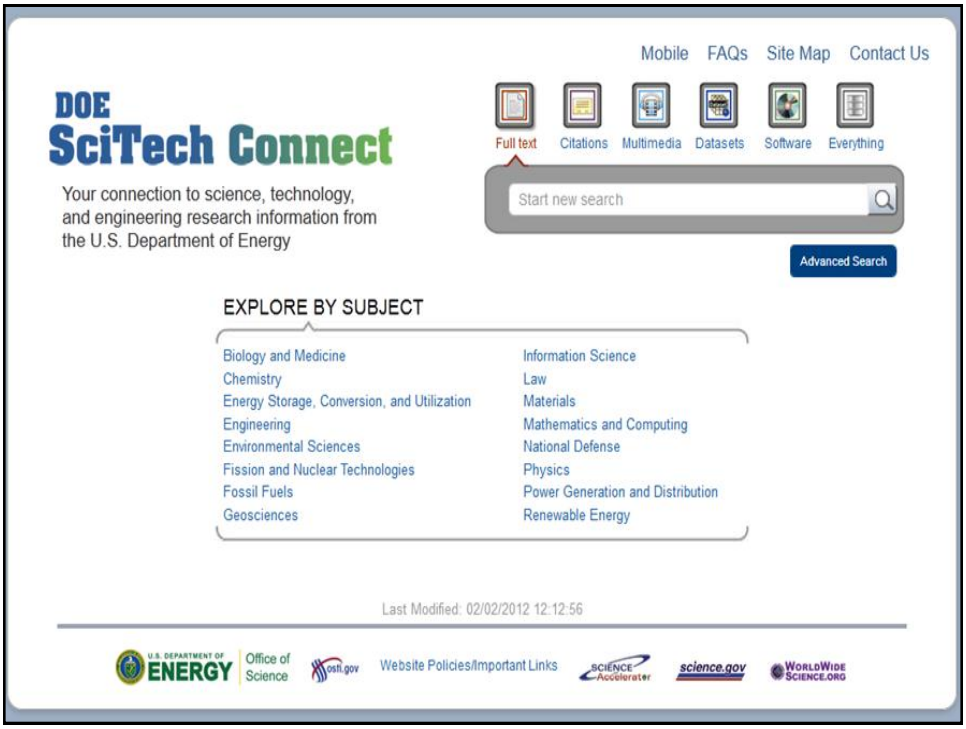
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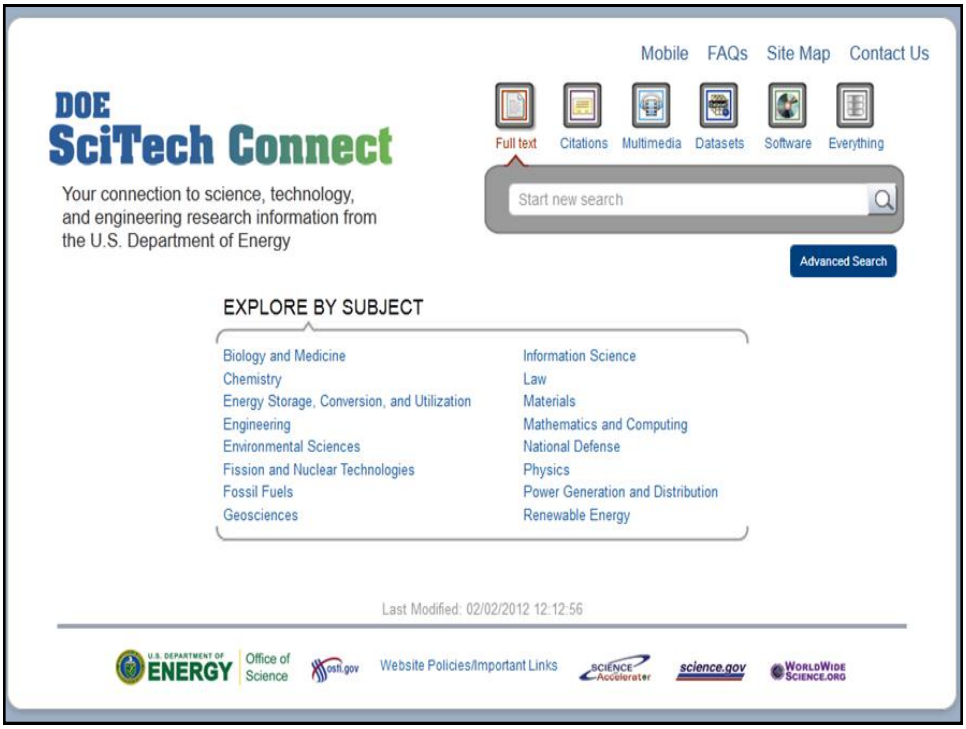
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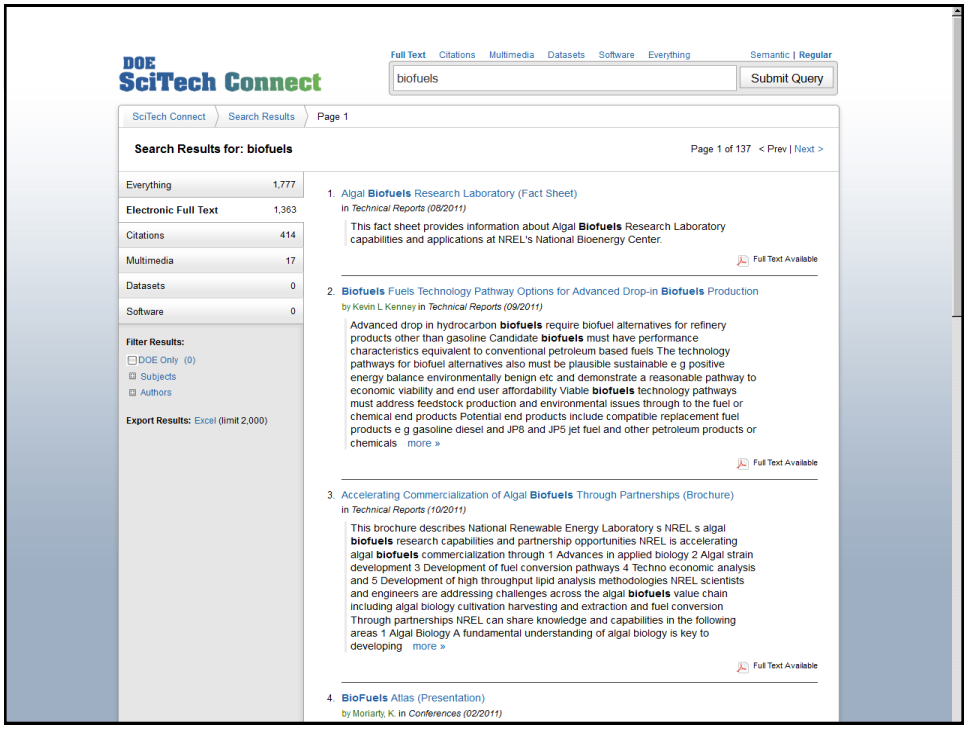
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2. Biofuels Fuels Technology Pathway Options for Advanced Drop-in Biofuels Production
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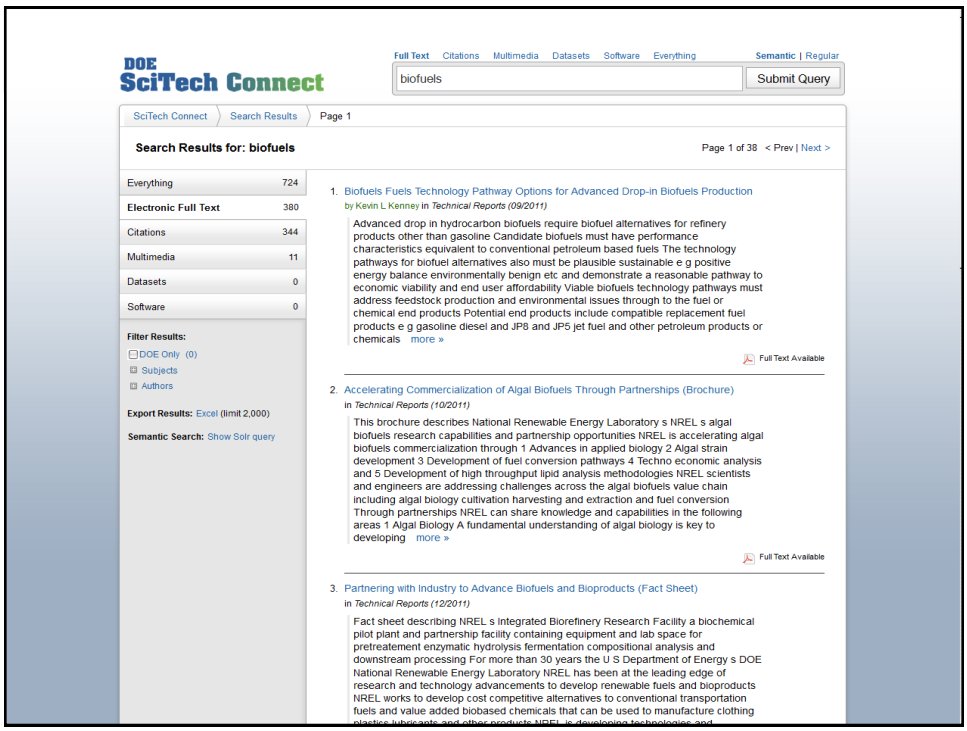
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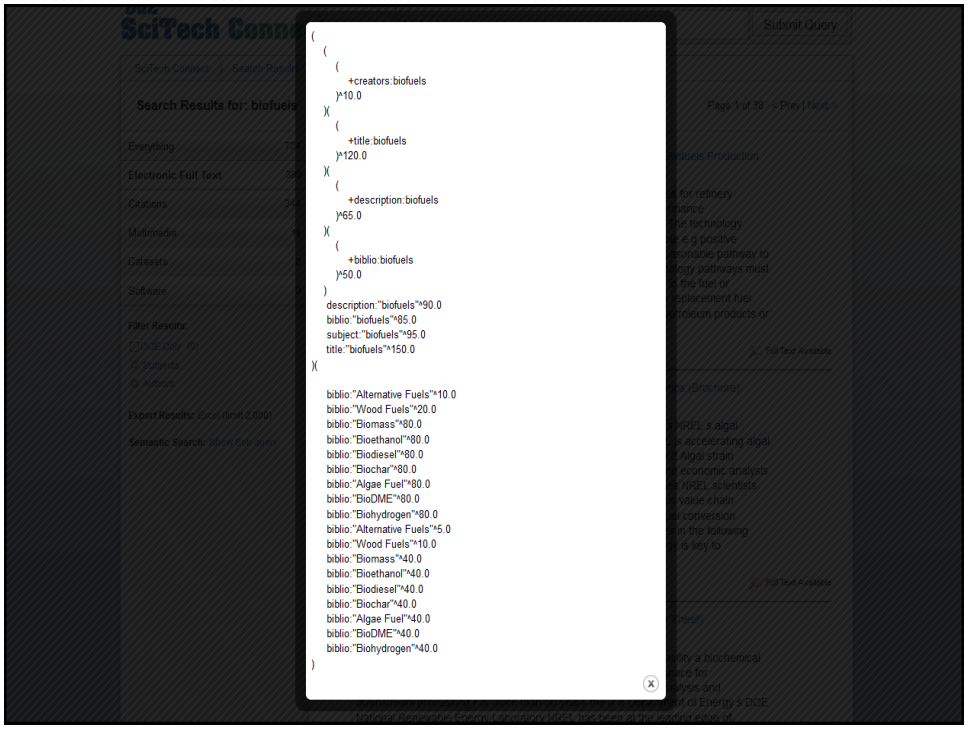
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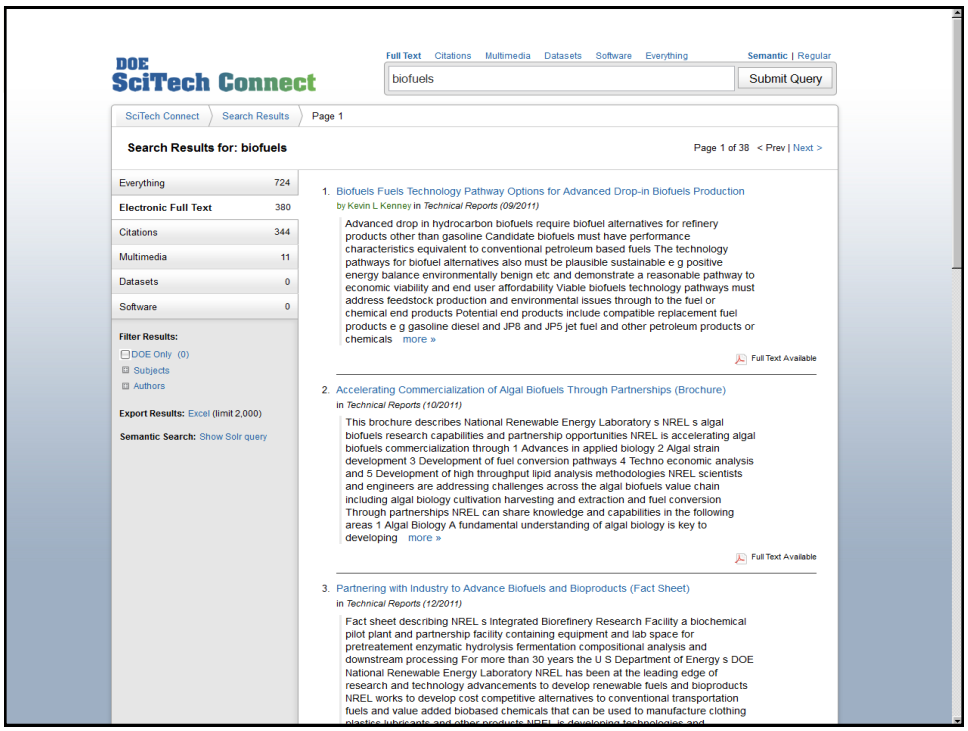
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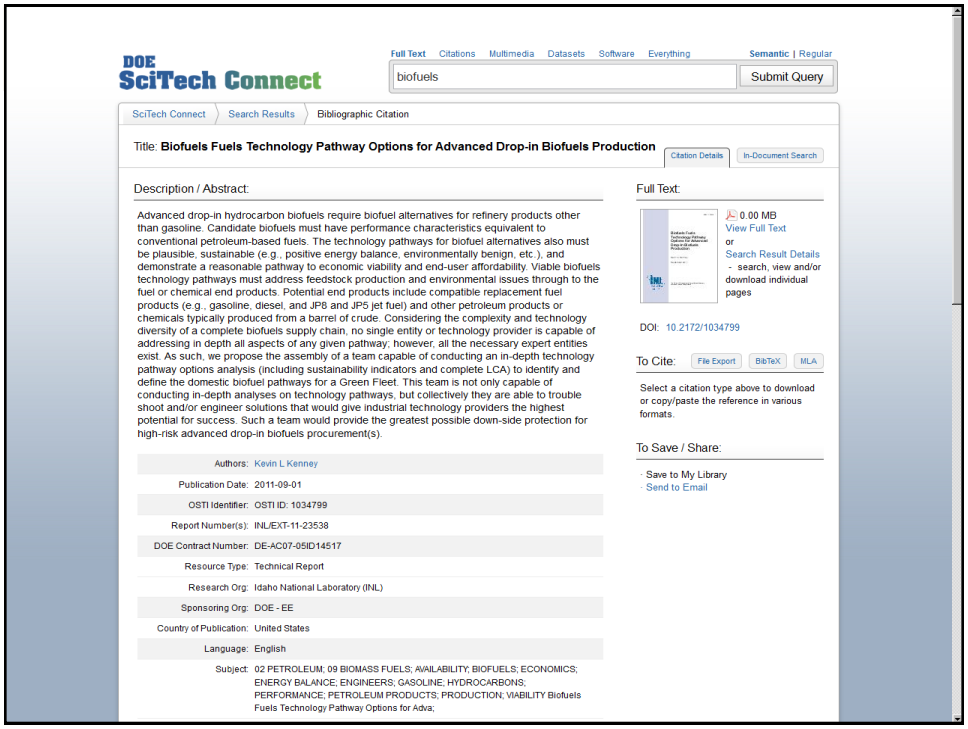
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Authors: Kevin L Kenney
Publication Date: 2011-09-01
OSTI Identifier: OSTI ID: 1034799
Report Number(s): INL/EXT-11-23538
DOE Contract Number: DE-AC07-05ID14517
Resource Type: Technical Report
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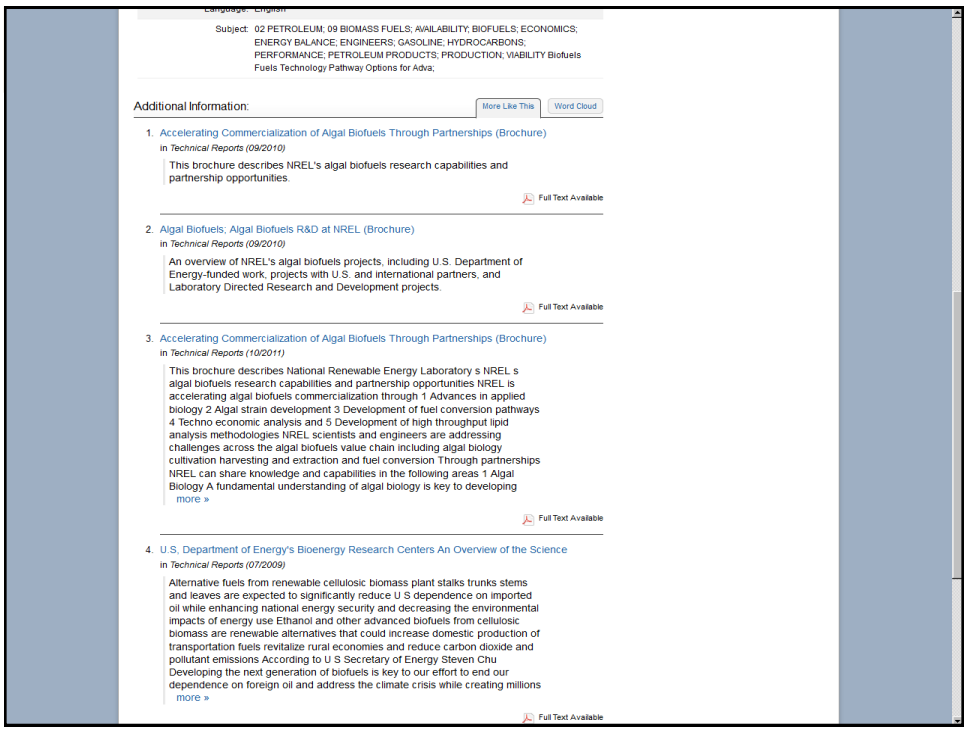
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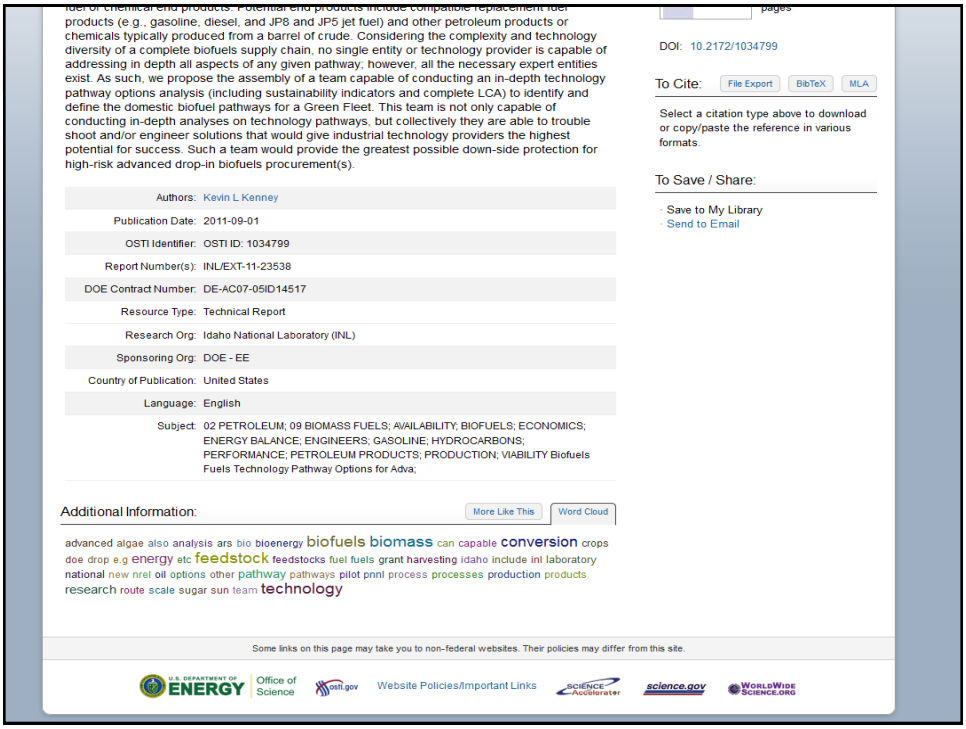

products (e.g., gasoline, diesel, and JP8 and JP5 jet fuel) and other petroleum products or chemicals typically produced from a barrel of crude. Considering the complexity and technology diversity of a complete biofuels supply chain, no single entity or technology provider is capable of addressing in depth all aspects of any given pathway; however, all the necessary expert entities exist. As such, we propose the assembly of a team capable of conducting an in-depth technology pathway options analysis (including sustainability indicators and complete LCA) to identify and define the domestic biofuel pathways for a Green Fleet. This team is not only capable of conducting in-depth analyses on technology pathways, but collectively they are able to trouble shoot and/or engineer solutions that would give industrial technology providers the highest potential for success. Such a team would provide the greatest possible down-side protection for high-risk advanced drop-in biofuels procurement(s).

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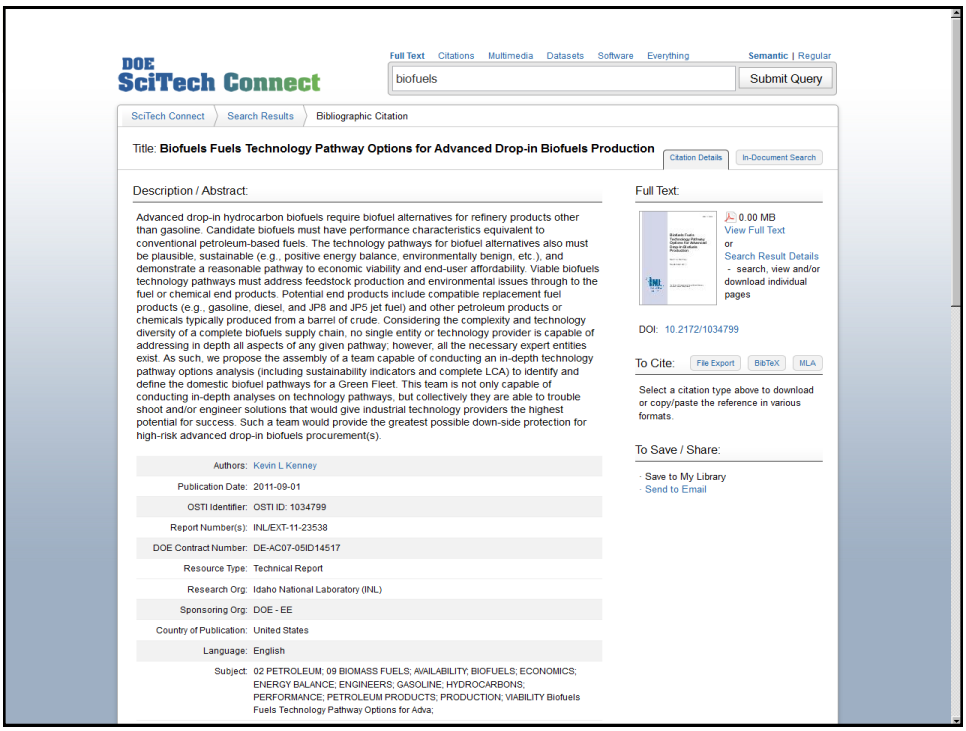

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Advanced drop-in hydrocarbon biofuels require biofuel alternatives for refinery products other than gasoline. Candidate biofuels must have performance characteristics equivalent to conventional petroleum-based fuels. The technology pathways for biofuel alternatives also must be plausible, sustainable (e.g., positive energy balance, environmentally benign, etc.), and demonstrate a reasonable pathway to economic viability and end-user affordability. Viable biofuels technology pathways must address feedstock production and environmental issues through to the fuel or chemical end products. Potential end products include compatible replacement fuel products (e.g., gasoline, diesel, and JP8 and JP5 jet fuel) and other petroleum products or chemicals typically produced from a barrel of crude. Considering the complexity and technology diversity of a complete biofuels supply chain, no single entity or technology provider is capable of addressing in depth all aspects of any given pathway; however, all the necessary expert entities exist. As such, we propose the assembly of a team capable of conducting an in-depth technology pathway options analysis (including sustainability indicators and complete LCA) to identify and define the domestic biofuel pathways for a Green Fleet. This team is not only capable of conducting in-depth analyses on technology pathways, but collectively they are able to trouble shoot and/or engineer solutions that would give industrial technology providers the highest potential for success. Such a team would provide the greatest possible down-side protection for high-risk advanced drop-in biofuels procurement(s).

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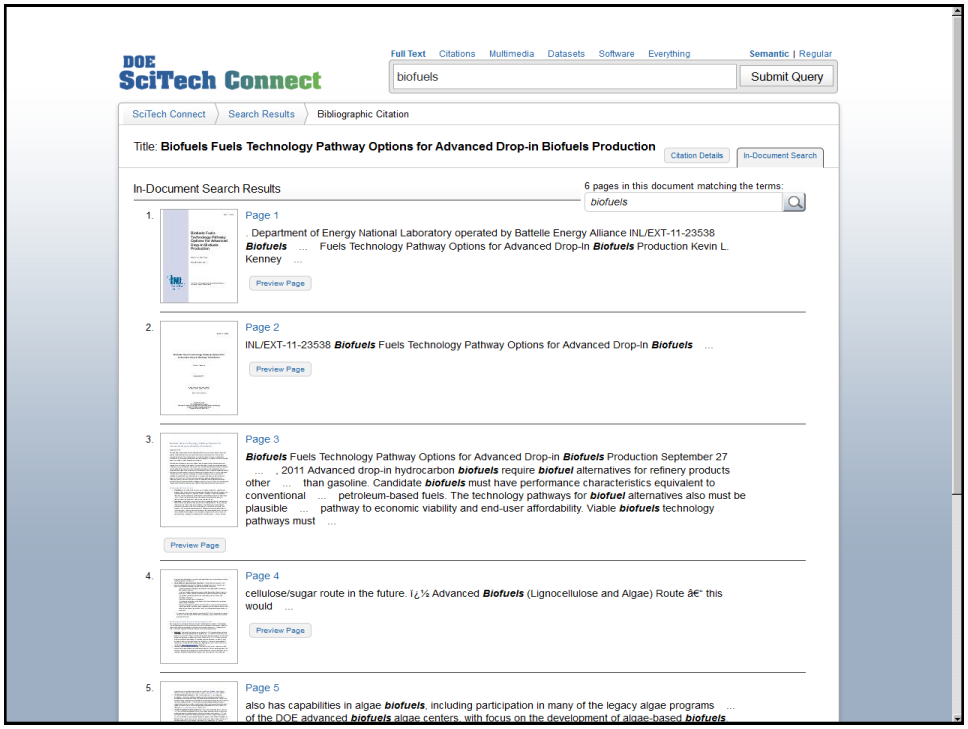
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cellulose/sugar route in the future. ï¿½ Advanced Biofuels (Lignocellulose and Algae) Route â€" this would ...
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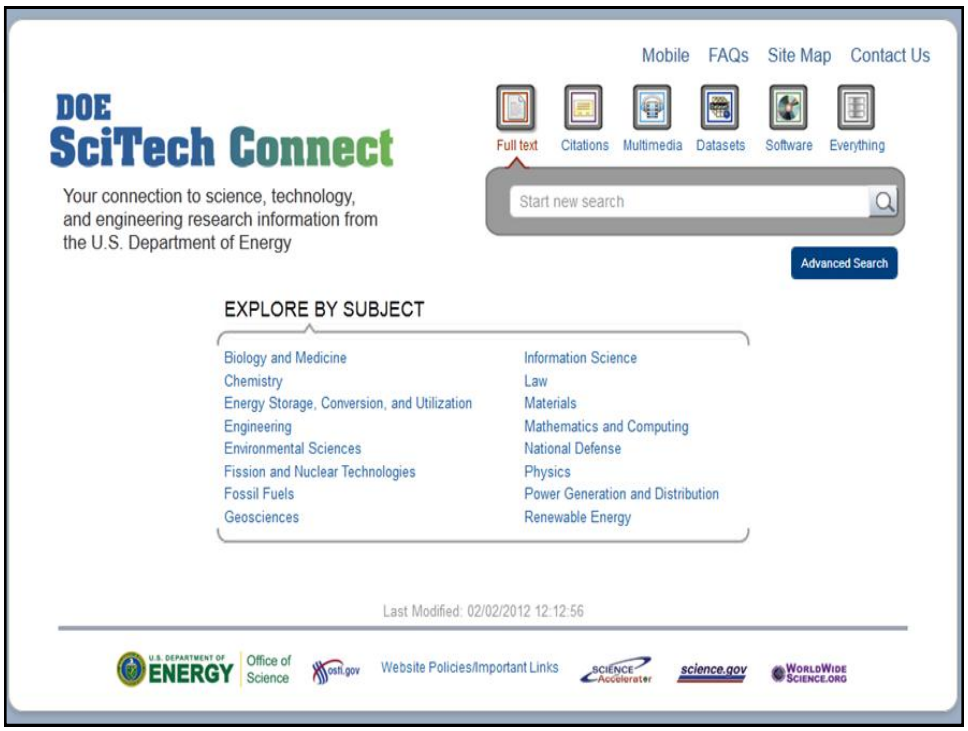
also has capabilities in algae biofuels, including participation in many of the legacy algae programs ... of the DOE advanced biofuels algae centers, with focus on the development of algae-based biofuels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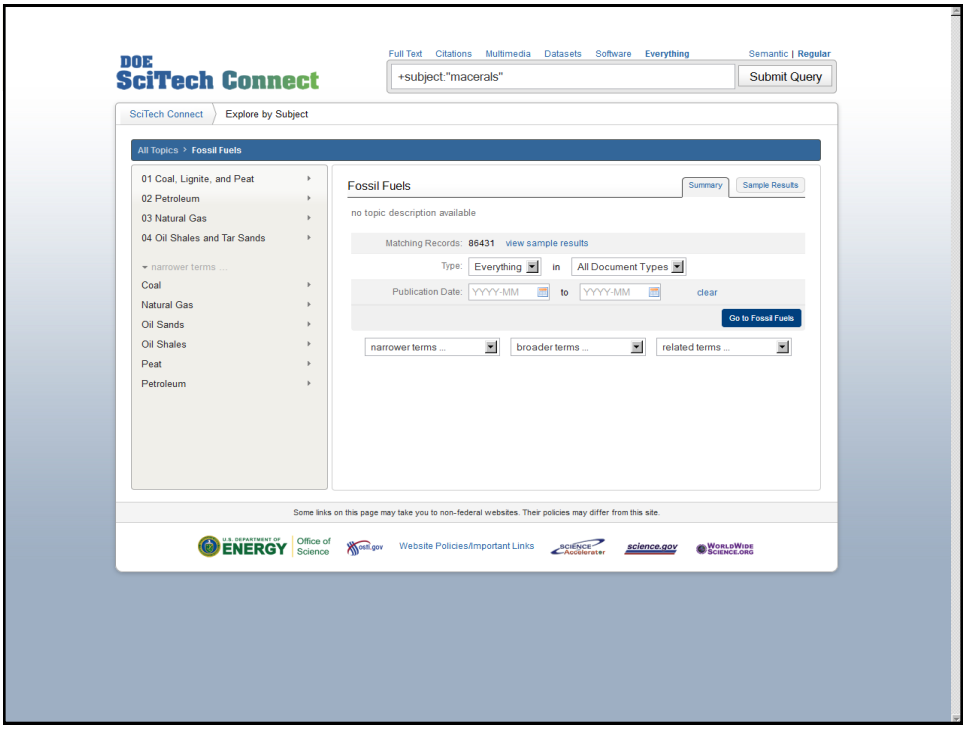
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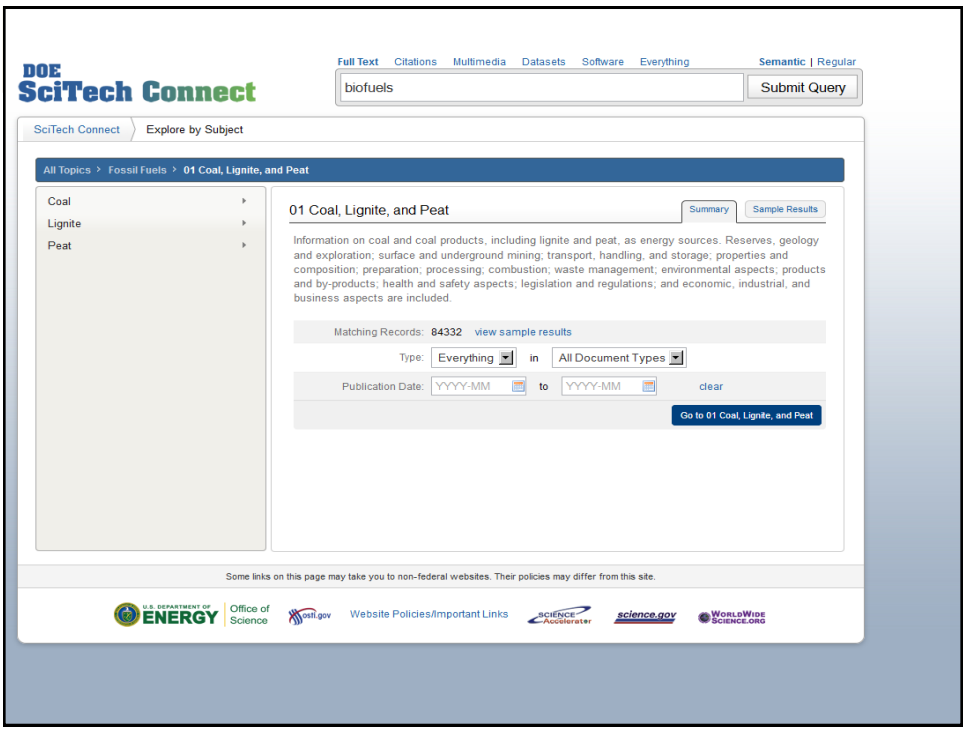
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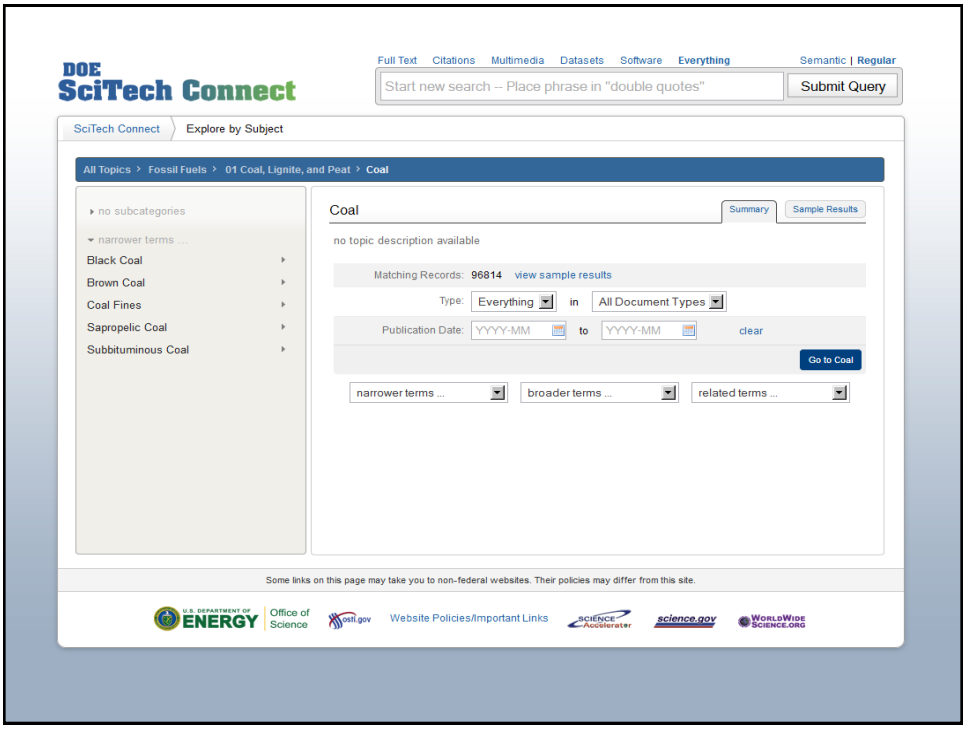
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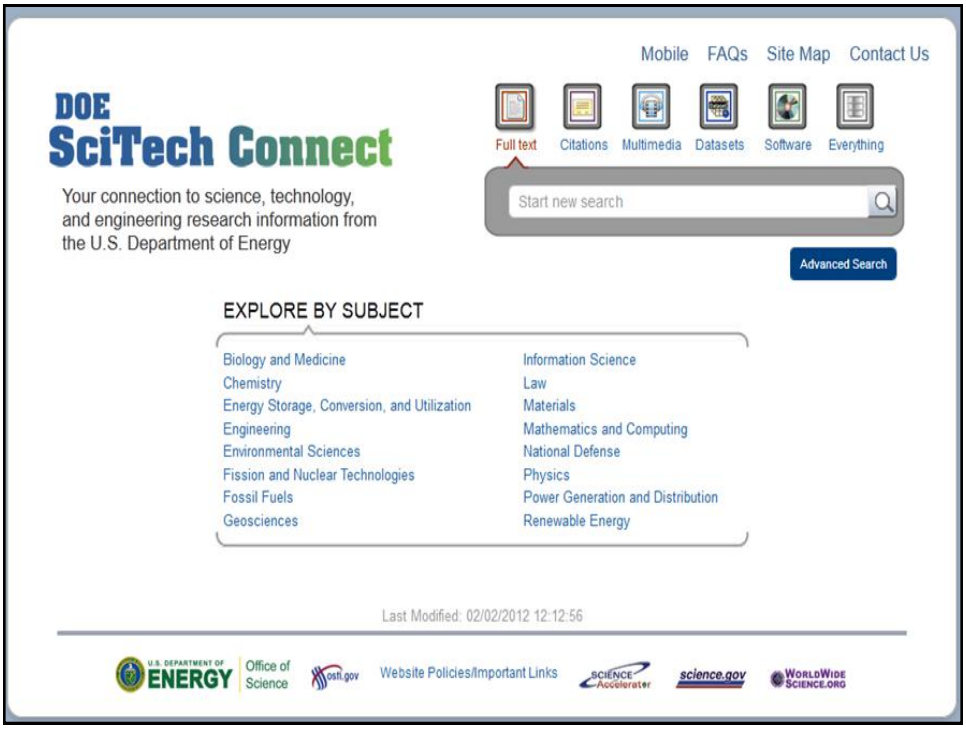
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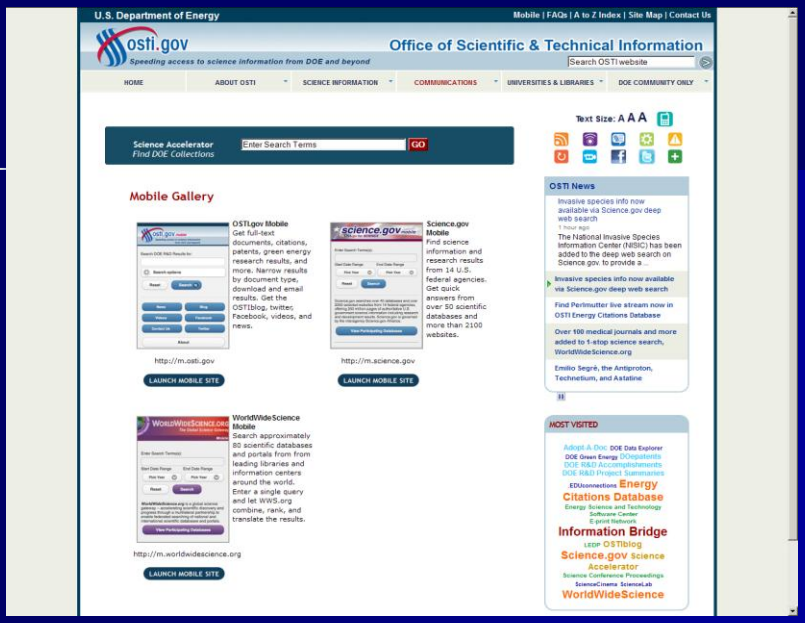

Questions?

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