

Searching NTRS Help Guide

<http://ntrs.nasa.gov>



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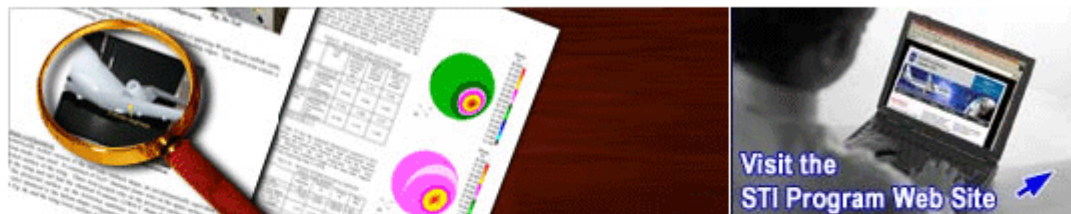
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Search NTRS



Visit the
STI Program Web Site

SEARCH NTRS

Navigation Search:

- Collection

[+ NACA](#)

[+ NASA](#)

[+ NIX](#)

+ NASA Center

+ Publication Year

+ Subject

+ Availability Options

+ Item/Media Type

Term Search:

Select Search Field: * to search NIX collection

Find Results With:

Enter Search Term:

(Enclose terms in double quotation marks ("") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.)



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NASA Official: [Calvin E. Mackey](#)
Last Updated: January 26, 2007

Table of Contents

- Introduction
- Getting Started
- Term Search
- Navigation Search
- Term and Navigation Search Example
- Brief and Full Citation Displays
- Open/Save Documents
- NASA STI Help Desk and NIX Help
- Complete List of Citation Fields



Introduction

NTRS searches three major collections: NACA* (1915-1958), NASA (1958-present), and NASA Image eXchange (NIX) (1900-present). NTRS provides access to citations (i.e., references) and online documents and imagery for the following kinds of information: conference papers, images, journal articles, photos, meeting papers, movies, patents, research reports, and technical videos.

Searching NTRS is quick and easy using the Term Search and Navigation Search options. Start a NTRS search by entering term(s) into the Term Search box or selecting a category under the Navigation Search. (Any Navigation Search selection with a plus “+” can be clicked to initiate a search, i.e., + NACA). Users start with all the available content in NTRS and use the Term Search and Navigation Search options to reduce results down to a manageable number of results.

Term Search

Use Term Search to search for specific authors, images/pictures, movies/videos, report and patent numbers, and titles. Select from pull-down box a field to search and enter terms into search box.

Navigation Search

Select options under Navigation Search to refine. Navigation Search allows users to narrow search results to specific collections, NASA Center, Date, Subject, and PDFs, Images, and Videos available online from NTRS.



*National Advisory Committee for Aeronautics (predecessor of NASA)

Getting Started

This section covers:

- Initial Search Screen
- Search and Results Screen
- Brief Citation Display
- Full Citation Display
- Search Corrections
- Error Messages

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Search NTRS

Visit the [STI Program Web Site](#)

SEARCH NTRS

Navigation Search:

- Collection
 - + NACA
 - + NASA
 - + NIX
- + NASA Center
- + Publication Year
- + Subject
- + Availability Options
- + Item/Media Type

Term Search:

Select Search Field: * to search NIX collection

Find Results With:

Enter Search Term:

+ GO

(Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.)

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- + 2004 Vision for Space Exploration
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NASA NASA Official: Calvin E. Mackey
Last Updated: January 26, 2007



Getting Started – Initial Search Screen

This is the initial search screen. Start a search by entering search words for a Term Search or selecting optional Navigation Search. Once search started, a different search screen appears.

Select +NACA as initial search

Navigation Search options. Shows category names and choices. Click on any choice with a “+” beside it to execute a search.

The screenshot shows the NTRS search interface. At the top right, there is a button labeled "Visit the STI Program Web Site" with a blue arrow. Below this, the "SEARCH NTRS" header is visible. The "Navigation Search:" section on the left lists several categories: "Collection" (with a minus sign), "+ NACA" (circled in red), "+ NASA", "+ NIX", "+ NASA Center", "+ Publication Year", "+ Subject", "+ Availability Options", and "+ Item/Media Type". The "Term Search:" section on the right includes a "Select Search Field:" dropdown menu set to "All" (with a note "* to search NIX collection"), a "Find Results With:" dropdown menu set to "All of the words", and an "Enter Search Term:" text input field. Below the input field is a "+ GO" button. A box labeled "Executes a Term Search" has an arrow pointing to the "+ GO" button. Another box labeled "Term Search menu choices" has an arrow pointing to the "Select Search Field:" dropdown menu. A third box labeled "Navigation Search options..." has an arrow pointing to the "Collection" category.



Getting Started – Search and Results Screen

Returns to NTRS main page

Returns to initial search screen

Term Search menu choices

Automatically selected so additional searching narrows results set

Clears search

Navigation Search options. Click on selection to execute search.

The screenshot shows the NTRS search interface. At the top, there are navigation tabs: "+ ABOUT NTRS", "- SEARCH NTRS" (active), "+ NTRS NEW", and "NASA INFO.". Below the tabs is a "Search NTRS" section with a magnifying glass icon. To the left of the search results is a "TERM SEARCH OPTIONS" panel. It includes a "Select Search Field" dropdown set to "All", a "Find Results With" dropdown set to "All of the words", and an "Enter Search Term" input field. Below the input field are checkboxes for "within returned results" (checked) and buttons for "+ GO" and "+ RESET SEARCH". A "Search Tips" section provides instructions on using search fields, exact phrases, and the reset button. Below the search options is a "NAVIGATION SEARCH OPTIONS" panel with links for "+ NASA Center", "+ Publication Year", "+ Subject", "+ Availability Options", and "+ Item/Media Type". The search results area shows "Selected Navigations:" with "Collection > NACA [X]". It lists sorting options: "Sort results by: NASA Center | Date Added to NTRS | Publication Year". A message states "There are a total of 14469 record(s) matching your query. Sorted by: Date Added To NTRS in Descending order". Below this is a numbered list of results: "1 2 3 4 5 6 7 8 9 10 Next >>". The first result is "Pressures and associated aerodynamic revolution at transonic speeds" with a "h Center" link. Below the result is the "Document ID: 19930088063; Report Number: NACA-RM-L53L28a". The second result is "Seaplanes floats and hulls. Part II" with "Author(s): Herrmann" and "Abstract: Different fl". Below this is "NASA Center: NASA", "Publication Year: 19", "Added to NTRS: 200", "Accession Number: 93R20085; Document ID: 19930090795; Report Number: NACA-TM-427". The third result is "Aerodynamic characteristics of a refined deep-step planing-tail flying-boat hull with".

Search strategy displays showing **NACA** collection selected. De-select by clicking [X] to start new search. If more than one navigation search category has been selected, a "Remove" link will display so all categories may be removed at one time.

Shows number of results found

Search results display by date added to NTRS, from most recent to oldest. Sort by NASA source using "NASA Center" or by year published using "Publication Year."

Numbered results pages. Advance by clicking **Next** or jump ahead by clicking a number.

Click on citation titles to see more information about the item.
Select citation title to see full citation.

Getting Started - Brief Citation Display

TERM SEARCH OPTIONS

Select Search Field ^
All [v]
Find Results With
All of the words [v]
Enter Search Term

 within returned results

Search Tips:

- ◆ Use only the fields with ^ to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: ...

◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Selected Navigations:
◆ Collection > [NASA](#) [X]

Search Criteria:
◆ Search Field: **All** > Results : **All** > Search Term: **77n28967** [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)
There are a total of **1** record(s) matching your query.
Sorted by: **Date Added To NTRS** in **Descending** order

[Analysis and radiant heating tests of a heat-pipe-cooled leading edge](#) ← **TITLE**

Author(s): Camarda, C. J. ← **AUTHOR**

Abstract: The performance of a heat pipe cooled leading edge was determined experimentally and analytically. The test model and radiant heaters were positioned to simulate aerodynamic heating distributions and gravity effects at... ← **ABSTRACT**

NASA Center: Langley Research Center ← **NASA SOURCE**

Publication Year: 1977 ← **DATE ITEM ADDED TO NTRS**

Added to NTRS: 2005-08-25 ← **DATE ITEM ADDED TO NTRS**

Accession Number: **77N28967**; Document ID: 19770022023; Report Number: L-11247, NASA-TN-D-8468 ← **UNIQUE ID NUMBERS**

+ Back to Top



Getting Started – Full Citation Display Example 1

Return to search and results screen

NAVIGATION SEARCH OPTIONS

Collection > [NASA](#)

Author > [Smithgall, Brian](#)
 Author > [Wilson, Keith E.](#)

NASA Center > [Jet Propulsion Laboratory](#)

Publication Year > [2001-2010](#) > [2004](#)

Subject > [J-L](#) > [Lasers And Masers](#)

Availability Options > [Order From Other Sources](#)

Item/Media Type > [Journal Article](#)

Note: Start a new navigation search by selecting a link above

SEARCH NTRS

[+ Back to Results](#)

Print citation → [+ Printer Friendly](#)

Title:	Aircraft Detection System Ensures Free-Space Laser Safety
Author(s):	Smithgall, Brian; Wilson, Keith E.
Abstract:	As scientists continue to explore our solar system, there are increasing demands to return greater volumes of data from smaller deep-space probes. Accordingly, NASA is studying advanced strategies based on free-space laser transmissions, which offer secure, high-bandwidth communications using smaller subsystems of much lower power and mass than existing ones. These approaches, however, can pose a danger to pilots in the beam path because the lasers may illuminate aircraft and blind them. Researchers thus are investigating systems that will monitor the surrounding airspace for aircraft that could be affected. This paper presents current methods for safe free space laser propagation.
NASA Center:	Jet Propulsion Laboratory
Publication Date:	December 2004
Document Source:	Other Sources
No Digital Version Available:	Go to Tips On Ordering
Document ID:	20050029451
Keywords:	SYSTEMS ENGINEERING LASER APPLICATIONS SAFETY FREE-SPACE OPTICAL COMMUNICATION AIRCRAFT DETECTION LASER DAMAGE AIRSPACE OPTICAL COMMUNICATION LASER BEAMS DEEP SPACE SPACE PROBES SEMICONDUCTOR LASERS
Accessibility:	Unclassified; Copyright; Unlimited; Publicly available;
Updated/Added to NTRS:	2005-01-25

[+ Back to Top](#)

Navigation Search options provide way to do new searches based upon information from citation. Example, search for more reports by *Wilson, Keith E.* by clicking on his name.

Getting Started - Full Citation Display Example 1 (cont'd)

Title:	Aircraft Detection System Ensures Free-Space Laser Safety
Author(s):	Smithgall, Brian, Wilson, Keith E.
Abstract:	As scientists continue to explore our solar system, there are increasing demands to return greater volumes of data from smaller deep-space probes. Accordingly, NASA is studying advanced strategies based on free-space laser transmissions, which offer secure, high-bandwidth communications using smaller subsystems of much lower power and mass than existing ones. These approaches, however, can pose a danger to pilots in the beam path because the lasers may illuminate aircraft and blind them. Researchers thus are investigating systems that will monitor the surrounding airspace for aircraft that could be affected. This paper presents current methods for safe free space laser propagation.
NASA Center:	Jet Propulsion Laboratory
Publication Date:	December 2004
Document Source:	Other Sources
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Document ID:	20050029451
Keywords:	SYSTEMS ENGINEERING LASER APPLICATIONS SAFETY FREE-SPACE OPTICAL COMMUNICATION AIRCRAFT DETECTION LASER DAMAGE AIRSPACE OPTICAL COMMUNICATION LASER BEAMS DEEP SPACE SPACE PROBES SEMICONDUCTOR LASERS
Accessibility:	Unclassified; Copyright Unlimited; Publicly available;
Updated/Added to NTRS:	2005-01-25

- Title of work
- Creator of technical work
- Brief summary explaining content in a document, image, and/or video
- NASA Center authoring, funding, or sponsoring item
- Year in which technical work published
- Organization providing document or video. Value of "CASI" means item available from CASI. Value of "Other" means item is not available from CASI and must be ordered from another organization.
- Document not accessible online. Click on "Go to Tips on Ordering" to find out how to obtain document.
- Unique number assigned to records and used to order item
- Words describing concepts of technical work/video derived from NASA Thesaurus
- NTRS only provides access to unclassified, unlimited, and publicly available technical works. Some works may be copyrighted and may not be available on NTRS if NASA does not have rights to distribute works.
- Date item loaded to NTRS

* Go to end of guide for complete list of citation fields



Getting Started - Full Citation Display Example 2

Title:	Development of Supersonic Combustion Experiments for CFD Modeling
Author(s):	Baurle, Robert; Bivolaru, Daniel; Tedder, Sarah; Danehy, Paul M.; Cutler, Andrew D.; Magnotti, Gaetano
Abstract:	This paper describes the development of an experiment to acquire data for developing and validating computational fluid dynamics (CFD) models for turbulence in supersonic combusting flows. The intent is that the flow field would be simple yet relevant to flows within hypersonic air-breathing engine combustors undergoing testing in vitiated-air ground-testing facilities. Specifically, it describes development of laboratory-scale hardware to produce a supersonic combusting coaxial jet, discusses design calculations, operability and types of flames observed. These flames are studied using the dual-pump coherent anti-Stokes Raman spectroscopy (CARS) - interferometric Rayleigh scattering (IRS) technique. This technique simultaneously and instantaneously measures temperature, composition, and velocity in the flow, from which many of the important turbulence statistics can be found. Some preliminary CARS data are presented.
NASA Center:	Langley Research Center
Publication Date:	2007
Document Source:	CASI
Download Document:	View PDF File
Document ID:	20070005147
Report Number:	AIAA Paper 2007-0978
Contract-Grant-Task Number:	NNL06AA16A
Price Code:	A03
Meeting Information:	45th AIAA Aerospace Sciences Meeting and Exhibit, 8-11 Jan. 2007; Reno, NV, United States
Keywords:	COMPUTATIONAL FLUID DYNAMICS SUPERSONIC COMBUSTION SUPERSONIC JET FLOW HYPERSONICS AIR BREATHING ENGINES FLAMES RAYLEIGH SCATTERING TURBULENCE
Accessibility:	Unclassified; No Copyright; Unlimited; Publicly available;
Updated/Added to NTRS:	2007-02-19

Document available online. Click to view and/or download.

Document number as assigned by NASA, or other publishing organization, at time of publication.

The contract, grant or task number under which the work documented by the report was done.


Cost of obtaining document in hard copy format.

If document originally presented as part of a conference, symposium, meeting, etc., the details of the meeting appear here.


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Search NTRS



SEARCH NTRS



Visit the STI Program Web Site

NAVIGATION SEARCH OPTIONS

Collection > NASA

Author > Lawson, M. V.

Previous Record | Next Record

+ Back to Results

+ Printer Friendly

	Spectral techniques in jet noise theory
Author(s):	Lowson, M. V.; Pao, S. P.
Title:	Spectral analysis techniques applied to Lighthill aerodynamic sound equation for unified jet noise theory
Center:	NASA (non Center Specific)
Publication Date:	Apr 1, 1969
Document Source:	CASI
Document Source:	View PDF File
Document ID:	19700003296
Report Number ID:	70N12600
Report Number:	NASA-CR-102370; WR-68-21
Contract-Grant-Task Number:	NAS8-21060
Price Code:	A04
Related Information:	ITS COPY 8

If you are having trouble opening PDF files please try the following to save the PDF file to your local machine.

- Right click on the link of the PDF file
- Choose the "save target as" option
- Save the file to your local machine and rename file as a .PDF if necessary (your browser may not automatically save files as PDF's)
- Open file locally with your Adobe software

Note: Start a new navigation search by selecting a link above



Getting Started – Search Correction

TERM SEARCH OPTIONS

Select Search Field ^
All [v]
Find Results With
All of the words [v]
Enter Search Term

 within returned results

Search Tips:

- ◆ Use only the fields with ^ to search NIX collection.
- ◆ Enclose terms in double quotation marks ("") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

NAVIGATION SEARCH OPTIONS

- + [Collection](#)
- + [NASA Center](#)
- + [Publication Year](#)
- + [Subject](#)
- + [Availability Options](#)
- + [Item/Media Type](#)

SEARCH NTRS

Search Criteria:

- ◆ Search Field: **All** > Results : **All** > Search Term: **nanotechnology** (Corrected to **nanotechnology**) [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **292** record(s) matching your query.

Sorted by: **Date Added To NTRS** in Descending Order

1 2 3 4 5 6 7 8 9 10 Next >>

[Applied Nanotechnology for Human Health](#)

Author(s): Yowell, Leonard L.
Abstract: A viewgraph presentation describing the results of a study conducted by NASA's ST...
NASA Center: Johnson Space Center
Publication Year: 2007
Added to NTRS: 2007-03-22
Document ID: 20070008216

[A Model-Driven Architecture Approach for Modeling, Specifying and Deploying Policies in Autonomous and Autonomic Systems](#)

Author(s): Pena, Joaquin; Hinchey, Michael G.; Sterritt, Roy; Ruiz-Cortes, Antonio; Resinas, Manuel
Abstract: Autonomic Computing (AC), self-management based on high level guidance from humans, is increasingly gaining momentum as the way forward in designing reliable systems that hide complexity and conquer IT management costs. ...
NASA Center: Goddard Space Flight Center
Publication Year: 2006

NTRS corrects spelling mistakes and automatically executes search with corrected spelling



Getting Started – No Results Found Message

TERM SEARCH OPTIONS

Select Search Field ^
All

Find Results With
All of the words

Enter Search Term

Search Tips:

- ◆ Use only the fields with ^ to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Search Criteria:

- ◆ Search Field: **All** > Results : **All** > Search Term: **terminal velocity paradigm** [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **0** record(s) matching your query.
Sorted by: **Date Added To NTRS** in **Descending** order

No results containing your search items were found.

Suggestions: ←

- ◆ Make sure all words are spelled correctly.
- ◆ Try different keywords that mean the same thing.
- ◆ Try more general keywords.
- ◆ Try using the wild card symbol * at the end of words to increase the number of word variations search, ie, comput* searches for computer, computers, computerized, computational, etc.

If search finds no results, follow suggestions and try a new search



Search with Term Search Options

This section covers:

- Term Search Fields and Descriptions
- Using *Find Results With*
- Term Search Examples
- Term Search Hints

TERM SEARCH OPTIONS

Select Search Field *

All

Find Results With

All of the words

Enter Search Term

within returned results

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

TERM SEARCH OPTIONS

Select Search Field *

All

All

Report - Patent Number

Abstract *

Accession Number *

NASA Center *

Author Name

Document ID

Keywords

Publication Date *

Title *

marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.

- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.



Term Search Field Names and Descriptions

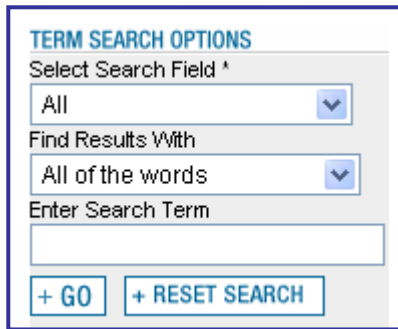
Select choices from drop-down menu box to search for Term Search in fields, i.e., specific information found in a citation, such as abstract, title, etc. Search individual fields or “All” for a combination search of all fields in this list.

The “*” beside search fields means use only these fields to search for NIX images and videos.

Any of the fields can be used to search the NACA and NASA collections.

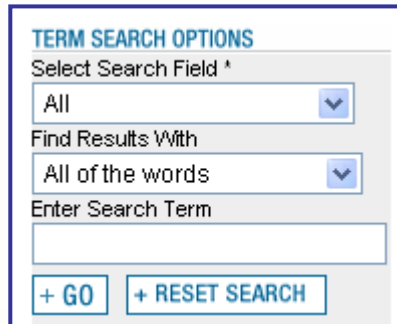
Search Field Name	Field Description
All	Combination of all fields, e.g., abstract, author, report, etc.
Abstract*	Brief summary explaining content in a document, image, and/or video
Accession Number*	Unique identifier assigned to records at the time of receipt or creation. In the case of the NASA and NACA collections, this is a historic record number that was assigned by CASI between the years 1962 and 1997. For the NIX collection, this identifier is present for all records.
NASA Center*	NASA Center authoring, funding, and/or sponsoring research
Author Name	Creator of technical works
Document ID	Unique number assigned to all records in the NASA and NACA collections; may be used to order items available from CASI
Keywords	Words describing concepts of technical work/video derived from NASA Thesaurus
Publication Date*	Publication year of document, image/photo, or movie/video
Report-Patent Number	Document report numbers and U.S. Patent Office patent numbers
Title*	Words from record title (citation, documents, images, videos)

Term Search using *Find Results With*



TERM SEARCH OPTIONS
Select Search Field ^
All
Find Results With
All of the words
Enter Search Term
+ GO + RESET SEARCH

Term Search has two search modes under the “Find Results With” setting: *All of the words* and *At least one of the words*



TERM SEARCH OPTIONS
Select Search Field ^
All
Find Results With
All of the words
Enter Search Term
+ GO + RESET SEARCH

All of the words search means every search term has to appear in a result

NARROWS search



TERM SEARCH OPTIONS
Select Search Field ^
All
Find Results With
At least one of the words
Enter Search Term
+ GO + RESET SEARCH

At least one search means one or the other search terms will appear in a result; in some cases both search terms will appear in a result if terms are found in the same citation

BROADENS search

Term Search Example 1

TERM SEARCH OPTIONS

Select Search Field *

All

Find Results With

All of the words

Enter Search Term

wind tunnel testing

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks ("") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **991401** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 8 9 10 Next >>

[USA-SOUTH CAROLINA SAVANNAH,HILTON HEAD I.](#)

Abstract: UNITED STATES OF AMERICA, SOUTH CAROLINA SAVANNAH,HILTON HEAD I.
NASA Center: Johnson Space Center
Publication Year: 2007
Added to NTRS: 2007-03-30
Accession Number: ISS014-E-15511

Search *All* field (abstract, author, title, etc.) for citations with *wind tunnel testing* in them

TERM SEARCH OPTIONS

Select Search Field *

All

Find Results With

All of the words

Enter Search Term

within returned results

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks ("") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Search Criteria:

- ◆ Search Field: **All** > Results : **All** > Search Term: **wind tunnel testing** [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **1798** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 8 9 10 Next >>

[Flutter Model Technology](#)

Author(s): Busan, Ron
Abstract: **Wind tunnel testing** of dynamically scaled models plays a key role in assuring that new or modified aircraft will be free of flutter within their flight envelopes. Typically, about one-quarter of the ...
NASA Center: Glenn Research Center
Publication Year: 2006
Added to NTRS: 2007-03-22
Document ID: 20070008371

[Some Remarks on the Use of Scale Models](#)

Results



Term Search Example 2

Search *All* field (abstract, author, title, etc.) for citations with either aerobraking or aerocapture in them

TERM SEARCH OPTIONS
 Select Search Field ^
 All
 Find Results With
 All of the words
 Enter Search Term
 aerobraking aerocapture
 + GO + RESET SEARCH

SEARCH NTRS
 Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)
 There are a total of **991401** record(s) matching your query.
 Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 8 9 10 Next >>
[USA-SOUTH CAROLINA SAVANNAH,HILTON HEAD I.](#)

Abstract: UNITED STATES OF AMERICA, SOUTH CAROLINA SAVANNAH,HILTON HEAD I.
NASA Center: Johnson Space Center
Publication Year: 2007
 Added to NTRS: 2007-03-30
 Accession Number: ISS014-E-15511

Search Tips:

- ◆ Use only the fields with ^ to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle".
- ◆ Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

TERM SEARCH OPTIONS
 Select Search Field ^
 All
 Find Results With
 All of the words
 Enter Search Term
 within returned results
 + GO + RESET SEARCH

Search Tips:

- ◆ Use only the fields with ^ to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS
Search Criteria:
 ◆ Search Field: **All** > Results : **All** > Search Term: **aerobraking aerocapture** [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)
 There are a total of **64** record(s) matching your query.
 Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 Next
[Aerocapture Benefits to Future Science Missions](#)

Author(s): Artis, Gwen; James, Bonnie
Abstract: ... techniques include aeroentry and **aerobraking**.) **Aerocapture** relies on drag atmospheric drag to decelerate an incoming spacecraft and capture it into orbit. This technique is very ...
NASA Center: Marshall Space Flight Center
Publication Year: 2006
 Added to NTRS: 2007-01-26
 Document ID: 20070002619

[Lightweight Ablative and Ceramic Thermal Protection System Materials for NASA](#)

Results



Term Search Example 3

TERM SEARCH OPTIONS

Select Search Field *

Author Name ▼

Find Results With

All of the words ▼

Enter Search Term

thompson david

[+ GO](#) [+ RESET SEARCH](#)

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **991401** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [Next >>](#)

[USA-SOUTH CAROLINA SAVANNAH,HILTON HEAD I.](#)

Abstract: UNITED STATES OF AMERICA, SOUTH CAROLINA SAVANNAH,HILTON HEAD I.

NASA Center: Johnson Space Center

Publication Year: 2007

Added to NTRS: 2007-03-30

Accession Number: ISS014-E-15511

Search *Author* field for citations by David Thompson.

TERM SEARCH OPTIONS

Select Search Field *

Author Name ▼

Find Results With

All of the words ▼

Enter Search Term

within returned results

[+ GO](#) [+ RESET SEARCH](#)

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Search Criteria:

- ◆ Search Field: **Author Name** > Results : **All** > Search Term: **thompson david** [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **70** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [Next](#)

[Future Gamma-Ray Observations of Pulsars and their Environments](#)

Author(s): Thompson, David J.

Abstract: Pulsars and pulsar wind nebulae seen at gamma-ray energies offer insight into particle acceleration to very high energies under extreme conditions. Pulsed emission provides information about the geometry and interaction ...

NASA Center: Goddard Space Flight Center

Publication Year: 2006

Added to NTRS: 2007-02-16

Document ID: 20070005048

[Chemical Fabrication Used to Produce Thin-Film Materials for High Power-to-](#)

Results



Term Search Example 4

TERM SEARCH OPTIONS

Select Search Field *

All

Find Results With

All of the words

Enter Search Term

Johnson Hervol

+ GO **+ RESET SEARCH**

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **991401** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 8 9 10 Next >>

[USA-SOUTH CAROLINA SAVANNAH,HILTON HEAD I.](#)

Abstract: UNITED STATES OF AMERICA, SOUTH CAROLINA SAVANNAH,HILTON HEAD I.

NASA Center: Johnson Space Center

Publication Year: 2007

Added to NTRS: 2007-03-30

Accession Number: ISS014-E-15511

Search **Author** field for citations by two authors, **Johnson and Hervol**.

TERM SEARCH OPTIONS

Select Search Field *

All

Find Results With

All of the words

Enter Search Term

within returned results

+ GO **+ RESET SEARCH**

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Search Criteria:

- ◆ Search Field: **All** > Results : **All** > Search Term: **Johnson Hervol** [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **2** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

[Experimental Validation of a Closed Brayton Cycle System Transient Simulation](#)

Author(s): **Johnson**, Paul K.; **Hervol**, David S.

Abstract: The Brayton Power Conversion Unit (BPCU) is a closed cycle system with an inert gas working fluid. It is located in Vacuum Facility 6 at NASA Glenn Research Center. Was used in previous solar dynamic technology efforts ...

NASA Center: Glenn Research Center

Publication Year: 2006

Added to NTRS: 2006-11-16

Document ID: 20060051715

[Experimental Validation of a Closed Brayton Cycle System Transient Simulation](#)

Results



Term Search Example 5

Search Report-Patent Number field for citations for NASA report, NASA-EP-251

TERM SEARCH OPTIONS
 Select Search Field ^
 Report - Patent Number
 Find Results With
 All of the words
 Enter Search Term
 NASA EP 251
 + GO + RESET SEARCH

Search Tips:
 ♦ Use only the fields with ^ to search NIX collection.
 ♦ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle".
 Commas and dashes are removed from search term by search engine.
 ♦ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS
 Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)
 There are a total of **991401** record(s) matching your query.
 Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 8 9 10 Next >>
[USA-SOUTH CAROLINA SAVANNAH,HILTON HEAD I.](#)

Abstract: UNITED STATES OF AMERICA, SOUTH CAROLINA SAVANNAH,HILTON HEAD I.
NASA Center: Johnson Space Center
Publication Year: 2007
 Added to NTRS: 2007-03-30
 Accession Number: ISS014-E-15511

Results

TERM SEARCH OPTIONS
 Select Search Field ^
 Report - Patent Number
 Find Results With
 All of the words
 Enter Search Term
 within returned results
 + GO + RESET SEARCH

Search Tips:
 ♦ Use only the fields with ^ to search NIX collection.
 ♦ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
 ♦ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS
Search Criteria:
 ♦ Search Field: **Report - Patent Number** > Results : **All** > Search Term: **NASA EP 251** [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)
 There are a total of **3** record(s) matching your query.
 Sorted by: **Date Added To NTRS** in **Descending** order

[The new space network The tracking and data relay satellite system](#)

Author(s): Froehlich, W.
Abstract: When the Tracking and Data Relay Satellite System (TDRSS) is completed, the system, together with its various NASA support elements will be known simply as the Space Networks. It will substantially increase information ...
NASA Center: NASA (non Center Specific)
Publication Year: 1986
 Added to NTRS: 2005-08-25
 Accession Number: 87N10171; Document ID: 19870000738; Report Number: NAS 1.19251(S), **NASA-EP-251(S)**

[AXAF The Advanced X-ray Astrophysics Facility](#)



Term Search Example 6

Search Report-Patent Number field for citations for AIAA Paper 2006-0069

TERM SEARCH OPTIONS

Select Search Field *

Report - Patent Number

Find Results With

All of the words

Enter Search Term

AIAA Paper 2006 0069

+ GO **+ RESET SEARCH**

Search Tips:

- Use only the fields with * to search NIX collection.
- Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". Commas and dashes are removed from search term by search engine.
- Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **991401** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 8 9 10 Next >>

[USA-SOUTH CAROLINA SAVANNAH,HILTON HEAD I.](#)

Abstract: UNITED STATES OF AMERICA, SOUTH CAROLINA SAVANNAH,HILTON HEAD I.

NASA Center: Johnson Space Center

Publication Year: 2007

Added to NTRS: 2007-03-30

Accession Number: ISS014-E-15511

Results

TERM SEARCH OPTIONS

Select Search Field *

Report - Patent Number

Find Results With

All of the words

Enter Search Term

within returned results

+ GO **+ RESET SEARCH**

Search Tips:

- Use only the fields with * to search NIX collection.
- Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Search Criteria:

- Search Field: **Report - Patent Number** > Results : **All** > Search Term: **AIAA Paper 2006 0069** [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **1** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

[Wind Tunnel Tests of Evolved Mars Tumbleweed Concepts](#)

Author(s): Antol, Jeffrey; Harris, Steven B.; Hajos, Gregory A.; Strickland, Christopher V.

Abstract: This paper summarizes the testing conducted in the Basic Aerodynamics Research Tunnel (BART) at NASA Langley Research Center (LaRC) to measure the drag properties of evolved Tumbleweed rover designs.

NASA Center: Langley Research Center, Wallops Flight Center

Publication Year: 2006

Added to NTRS: 2006-08-02

Document ID: 20060004783; Report Number: **AIAA Paper 2006-0069**

[+ Back to Top](#)



Term Search Example 7

TERM SEARCH OPTIONS

Select Search Field *

Report - Patent Number

Find Results With

All of the words

Enter Search Term

NASA Case KSC 12246 2

+ GO

+ RESET SEARCH

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See more tips.

SEARCH NTRS

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **991401** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 8 9 10 Next >>

[USA-SOUTH CAROLINA SAVANNAH,HILTON HEAD I.](#)

Abstract: UNITED STATES OF AMERICA, SOUTH CAROLINA SAVANNAH,HILTON HEAD I.

NASA Center: Johnson Space Center

Publication Year: 2007

Added to NTRS: 2007-03-30

Accession Number: ISS014-E-15511

Search Report-Patent Number field for citations for NASA patent, NASA-Case-KSC-12246-2

Results

TERM SEARCH OPTIONS

Select Search Field *

Report - Patent Number

Find Results With

All of the words

Enter Search Term

within returned results

+ GO

+ RESET SEARCH

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Search Criteria:

- ◆ Search Field: **Report - Patent Number** > Results : **All** > Search Term: **NASA Case KSC 12246 2** [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **1** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

[Zero-Valent Metal Emulsion for Reductive Dehalogenation of DNAPLs](#)

Abstract: A zero-valent metal emulsion is used to dehalogenate solvents, such as pooled dense non-aqueous phase liquids (DNAPLs), including trichloroethylene (TCE). The zero-valent metal emulsion contains zero-valent metal particles, ...

NASA Center: Kennedy Space Center

Publication Year: 2006

Added to NTRS: 2006-08-03

Document ID: 20060017040

[+ Back to Top](#)



Term Search Hints

Punctuation

- Use quotes "" for exact phrases, i.e., "space shuttle"
- Use asterisk * for wild card to expand term searching, i.e., *comput** searches for computation, computational, computer, computers, computerization, etc.
- Do not use hyphens in report and patent number searching, i.e., *AIAA Paper 87 1746* (no punctuation)
- Do use hyphens for abstract, keyword, and title searches, i.e., *x-ray*
- Do not use slashes in any search, i.e., *NASA NAVY*

Author Searches

- Try searching for author in several ways
 - Enter first initial last name, i.e., *m nelson*
 - Enter first name last name, i.e., *michael nelson*
- Multiple Authors
 - Use last names only, i.e., *yang hill*

Report and Patent Number Searches

- Remove all hyphens and slashes when entering report and patent numbers
- Leave space between letters and numbers
 - NASA-EP-251 report searched as NASA EP 251
 - AIAA Paper 2006-0069 report searched as AIAA Paper 2006 0069
 - NASA-Case-KSC-12246-2 patent searched as NASA Case KSC 12246 2



Search with Navigation Search Options

This section covers:

- Navigation Search
- Navigation Search Options
- Navigation Search Example
- Navigation Search Hints

NAVIGATION SEARCH OPTIONS

- + **Collection**
- + **NASA Center**
- + **Publication Year**
- + **Subject**
- + **Availability Options**
- + **Item/Media Type**



Navigation Search

NAVIGATION SEARCH OPTIONS

- Collection
- + NACA
- + NASA
- + NIX
- + NASA Center
- + Publication Year
- + Subject
- + Availability Options
- + Item/Media Type

Navigation Search option provides categories to drill down into a set of results until the desired search result set is achieved

- The “+” sign means that clicking on the category will expand it for more options to select.
- The “-” sign means the category is expanded to show more options to select.

Navigation Search options are tied to the information in the citations. The initial search displays all available Navigation Search options: Collection, NASA Center, Publication Year, Subject, Availability Options, and Item/Media Type.

As search progresses, Navigation Options may disappear because option is no longer available. Example, once **+NACA** is selected, search screen will not display Collection as an option any longer.



Navigation Search Option Descriptions

COLLECTION Search either all content collections (which is the default) or select a NASA, NACA, or NIX

NAVIGATION SEARCH OPTIONS

- Collection

- + NACA
- + NASA
- + NIX
- + NASA Center
- + Publication Year
- + Subject
- + Availability Options
- + Item/Media Type

NTRS searches three major collections:

- NASA (1958-present)
- NACA* (1915-1958)
- NASA Image eXchange (NIX) (1900-present)

NASA and NACA are collections of documents, reports, articles, and movie/videos. NIX is a collection of images/photos and videos/movies. NTRS searches all 3 collections by default but users can select to search within a specific collection using the Navigation Search.

NASA CENTER Search either all NASA Centers (which is the default) or select an individual one

NAVIGATION SEARCH OPTIONS

+ Collection

- NASA Center

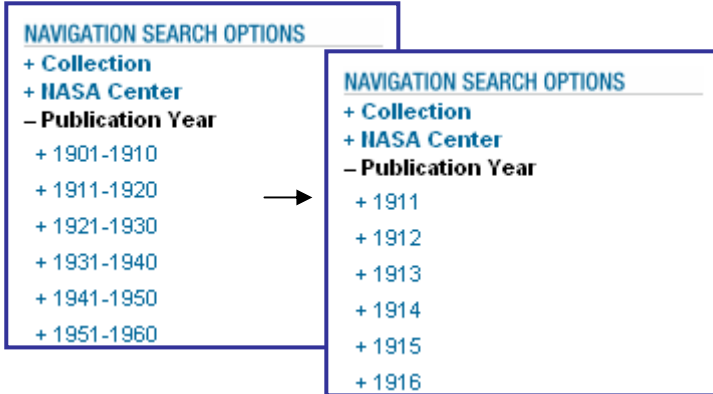
- + Ames Research Center
- + Dryden Flight Research Center
- + Glenn Research Center
- + Goddard Space Flight Center
- + Jet Propulsion Laboratory
- + Johnson Space Center
- + Kennedy Space Center

NASA Centers generate the scientific and technical reports and images that are found in NTRS.

Limit searches to an individual NASA Center to view publications, movie/video and image/photo from a specific NASA source.

Navigation Search Option Descriptions

DATE Year(s) in which a document, video, and/or photo published



Date ranges in NTRS are organized by

- 10 year increments
- Then by individual year

SUBJECT High-level classification of subject terms derived from the NASA Subject Category Guide



NASA and NACA documents and videos are assigned a subject category term to provide a description of the content of the record.

* NIX images/photos and movie/video do not have a subject category term.



Navigation Search Option Descriptions

AVAILABILITY OPTIONS Allows user to limit searches to items that are online, can be ordered from NASA CASI, or have to be ordered from other sources

NAVIGATION SEARCH OPTIONS

- + Collection
- + NASA Center
- + Publication Year
- + Subject
- Availability Options
 - + Online
 - + Order From CASI
 - + Order From Other Sources
- + Item/Media Type

+ Online

- + Subject
- Availability Options
 - + GIF
 - + JPEG
 - + MPEG
 - + PDF
 - + QUICKTIME
- + Item/Media Type

+ Order from CASI

- + Subject
- Availability Options
 - + CD-ROM, DVD, Print
 - + VIDEO
- + Item/Media Type

+ Order from Other Sources

NTRS provides access to citations and online documents, images/photos and movies/videos.

Some documents are available online. Documents not found online need to be ordered from the NASA Center for Aerospace Information (CASI) or from the originating source of the content. NTRS citations provide links to ordering information.

Formats:

- GIF, JPEG, and MPEG = image/photos
- PDF = documents
- Quicktime = movies/videos

Example: Select "PDF" to only retrieve results which have online documents

Documents and videos are available from CASI

- Documents can be ordered as: CDs, DVDs, Print copies
- Videos can be ordered as: VHS or Beta

List of sources to order content provided

Navigation Search Option Descriptions

ITEM/MEDIA TYPE Provides list of “types” of content found in NTRS

NAVIGATION SEARCH OPTIONS

- + Collection
- + HIASA Center
- + Publication Year
- + Subject
- + Availability Options
- Item/Media Type
 - + Image/Photo
 - + Journal Article
 - + Movie/Video
 - + NACA Report
 - + NASA Report
 - + Other
 - + Preprint
 - + Technical Report
 - + Thesaurus
 - + Thesis
 - + Bibliography
 - + Collected Works
 - + Conference Paper
 - + Conference Proceedings
 - + Congressional Report
 - + Dictionary
 - + Extended Abstract
 - + Journal Issue

NTRS content includes many different categories of documents such as journal articles, technical reports, patents, etc.

Users may find it useful to limit results to a specific kind of document to reduce the number of results.

Use Item/Media Type to find NACA and NASA reports

- Select + **NACA** to find reports (1915-1958)
- Select + **NASA** to find reports (1958-present)

Use Availability Options to find online documents

- Select + **Online**
- Select + **PDF**



Navigation Search Example

Search on Goddard Space Flight Center information from the early 1930's

TERM SEARCH OPTIONS

Select Search Field ^
All

Find Results With
All of the words

Enter Search Term

+ GO + RESET SEARCH

Search Tips:

- ◆ Use only the fields with ^ to search NIX collection.
- ◆ Enclose terms in double quotation marks ("") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

SEARCH NTRS

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)
There are a total of **991401** record(s) matching your query.
Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 8 9 10 Next >>

[USA-SOUTH CAROLINA SAVANNAH,HILTON HEAD I.](#)

Abstract: UNITED STATES OF AMERICA, SOUTH CAROLINA SAVANNAH,HILTON HEAD I.
NASA Center: Johnson Space Center
Publication Year: 2007
Added to NTRS: 2007-03-30
Accession Number: ISS014-E-15511

[GREECE MACEDONIAN PEN., GLINT](#)

Abstract: GREECE MACEDONIAN PEN., GLINT
NASA Center: Johnson Space Center
Publication Year: 2006
Added to NTRS: 2007-03-30
Accession Number: ISS013-E-6296

[EGYPT PO. SAFAGA, SAFAGA IS., CORAL](#)

Abstract: EGYPT PO. SAFAGA, SAFAGA IS., CORAL
NASA Center: Johnson Space Center
Publication Year: 2006
Added to NTRS: 2007-03-30
Accession Number: ISS013-E-6296

NAVIGATION SEARCH OPTIONS

+ Collection

- NASA Center

- + Ames Research Center
- + Dryden Flight Research Center
- + Glenn Research Center
- + **Goddard Space Flight Center**
- + Jet Propulsion Laboratory
- + Johnson Space Center

Select "Goddard Space Flight Center"



Navigation Search Example (cont'd)

TERM SEARCH OPTIONS
Select Search Field *
All
Find Results With
All of the words
Enter Search Term
 within returned results
+ GO **+ RESET SEARCH**

SEARCH TIPS:
◆ Use only the fields with * to search NIX collection.
◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

NAVIGATION SEARCH OPTIONS
+ Collection
+ Publication Year
+ Subject
+ Availability Options
+ Item/Media Type

SEARCH NTRS
Selected Navigations:
◆ NASA Center > [Goddard Space Flight Center](#) [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)
There are a total of **48275** record(s) matching your query.
Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 8 9 10 Next >>
[Single Crystal Silicon Instrument Mirrors](#)

Author(s): Bly, Vince
Abstract: The goals for the fabrication of single crystal silicon instrument mirrors include the following 1) Develop a process for fabricating lightweight mirrors from single crystal silicon (SCS) 2) Modest lightweighting 3X to 4X ...

Publication Year: 1993
Added to NTRS: 2007-03-30

NASA Center > Goddard Space Flight Center [X] displays.
(To de-select "Goddard," click [X] and search goes back to previous search screen)

NASA Center disappears from Navigation Search Options because Goddard was selected so this option is no longer available.

Select "Publication Year" under Navigation Search Options



Navigation Search Example (cont'd)

TERM SEARCH OPTIONS

Select Search Field *

All

Find Results With

All of the words

Enter Search Term

within returned results

+ GO

+ RESET SEARCH

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks ("") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

NAVIGATION SEARCH OPTIONS

+ Collection

- Publication Year

+ 1931-1940

+ 1951-1960

+ 1961-1970

+ 1971-1980

+ 1981-1990

+ 1991-2000

+ 2001-2010

+ Subject

+ Availability Options

+ Item/Media Type

SEARCH NTRS

Selected Navigations:

- ◆ NASA Center > [Goddard Space Flight Center](#) [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **48275** record(s) matching your query.

Sorted by: **Date Added To NTRS** in **Descending** order

1 2 3 4 5 6 7 8 9 10 Next >>

[Single Crystal Silicon Instrument Mirrors](#)

Author(s): Bly, Vince

Abstract: The goals for the fabrication of single crystal silicon instrument mirrors include the following 1) Develop a process for fabricating lightweight mirrors from single crystal silicon (SCS) 2) Modest lightweighting 3X to 4X ...

NASA Center: Goddard Space Flight Center

Publication Year: 2007

Added to NTRS: 2007-03-30

Document ID: 20070010696

[An intelligent planning and scheduling system for the HST servicing missions](#)

Author(s): Johnson, Jay; Bogovich, Lynn; Tuchman, Alan; Kispert, Andrew; Page, Brenda; Burkhardt, Christian; Littlefield, Ronald; Mclean, David; Potter, William; Ochs, William, et al.

... has been delivered to NASA-Goddard ... coming Hubble Space Telescope (HST)

Date range shows available date ranges for Goddard citations.

Select "1931-1940"

91

[Multispacecraft Observations of Solar Flare Particles in the Inner Heliosphere](#)

Author(s): Wibberenz, G.; Cane, H. V.

Abstract: For a number of impulsive solar particle events we examine variations of maximum intensities and times to maximum intensity as a function of longitude, using observations from the



Navigation Search Example (cont'd)

TERM SEARCH OPTIONS
Select Search Field ^
All
Find Results With
All of the words
Enter Search Term
 within returned results

SEARCH TIPS:
◆ Use only the fields with ^ to search NIX collection.
◆ Enclose terms in double quotation marks ("") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

NAVIGATION SEARCH OPTIONS
- Publication Year
+ 1932
+ 1938
+ Subject
+ Availability Options
+ Item Media Type

SEARCH NTRS
Selected Navigations: [Remove]
◆ NASA Center > Goddard Space Flight Center [X]
◆ Publication Year > 1931-1940 [X] ←

Sort results by: NASA Center | Date Added to NTRS | Publication Year
There are a total of 2 record(s) matching your query.
Sorted by: **Date Added To NTRS** in **Descending** order

The command system malfunction of the telstar satellite

Author(s): Brown, W. L.; Gummel, H. K.; Mann, H. P.; Mayo, J. S.
Abstract: Command system malfunction of telstar satellite due to redundant command decoder
NASA Center: Goddard Space Flight Center
Publication Year: 1932
Added to NTRS: 2006-11-06
Accession Number: 64N10897; Document ID: 19640000988

High-Absorptance Radiative Heat Sink

Author(s): Cafferty, T.
Abstract: Absorptance of black-painted open-cell aluminum honeycomb improved by cutting honeycomb at angle or bias rather than straight across. This ensures honeycomb cavities escapes. At each reflection radiation attenuated by ...
NASA Center: Goddard Space Flight Center

Date > 1931-1940 [X] appears because this date range was selected.
(To de-select date range, click on [X] and search will go back to previous search page)

Date shows "1932" and 1938" meaning that 1932 and 1938 are the only years with results.
Click on the year or the citation title to see the full citation.



Navigation Search Hints

Navigation Options

- Initial search displays all available Navigation Search options: Collection, NASA Center, Publication Year, Subject, Availability Options, and Item/Media Type. As search progresses, Navigation Search options disappear when option is no longer applicable to a search set. Example, once + *NACA* is selected, the Collection option will not display

Searches

- Use Item/Media Type to find NACA and NASA series report
 - Select + *NACA* to find reports (1915-1958)
 - NACA report series: aircraft circulars, annual reports, technical memorandums, technical notes, reports, research memorandums, and wartime reports
 - Select + *NASA* to find reports (1958-present)
 - NASA Report series: conference paper, contractor report, educational publication, reference publication, special publication, technical notes, and technical translation
- Use Availability Options to find online documents
 - Select + *Online*
 - Select + *PDF*



Term and Navigation Search Example

Search on space shuttle documents available online from NTRS

TERM SEARCH OPTIONS

Select Search Field *

All

Find Results With

All of the words

Enter Search Term

space shuttle

Search Tips:

- ◆ Use only the fields with * to search NIX collection.
- ◆ Enclose terms in double quotation marks ("") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

NAVIGATION SEARCH OPTIONS

- + Collection
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- + Subject
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SEARCH NTRS

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

There are a total of **991401** record(s) matching your query.

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1 2 3 4

USA- **Term search on space shuttle**

Abstract: UNITED STATES OF AMERICA, SOUTH CAROLINA SAVANNAH,HILTON HEAD I.
NASA Center: Johnson Space Center
Publication Year: 2007
Added to NTRS: 2007-03-30
Accession Number: ISS014-E-15511

[GREECE MACEDONIAN PEN., GLINT](#)

Abstract: GREECE MACEDONIAN PEN., GLINT
NASA Center: Johnson Space Center
Publication Year: 2006
Added to NTRS: 2007-03-30
Accession Number: ISS014-E-10908

[EGYPT PO. SAFAGA, SAFAGA IS., CORAL](#)

Abstract: EGYPT PO. SAFAGA, SAFAGA IS., CORAL
NASA Center: Johnson Space Center
Publication Year: 2006
Added to NTRS: 2007-03-30
Accession Number: ISS014-E-0888



Term and Navigation Search Example (cont'd)

Search on space shuttle documents available online from NTRS

TERM SEARCH OPTIONS

Select Search Field ^
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Find Results With
All of the words

Enter Search Term

within returned results

Search Tips:

- ◆ Use only the fields with ^ to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

NAVIGATION SEARCH OPTIONS

- + Collection
- + NASA Center
- + Publication Year
- + Subject
- Availability Options
 - + Online
 - + Order From CASI
 - + Order From Other Sources
- + Item/Media Type

SEARCH NTRS

Search Criteria:
◆ Search Field: **All** > Results : **All** > Search Term: **space shuttle** [X]

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)
There are a total of **34802** record(s) matching your query.
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1 2 3 4 5 6 7 8 9 10 Next >>

[Unsteady Flow Simulation of High-speed Turbopumps](#)

Author(s): Kiris, Cetin C.; Kwak, dochan; Chan, William; Housman, Jeffrey A.
Abstract: ... One example of this type in aerospa**ce** is related to liquid-fueled rocket turbopump. Rocket turbopumps operate under severe conditions at very high rotational speeds typically at ...
NASA Center: Ames Research Center
Publication Year: 2006
Added to NTRS: 2007-03-30
Document ID: 20060024890

[Space Radiation Organ Doses for Astronauts on Past and Future Missions](#)

Author(s): Cucinotta, Francis A.
Abstract: We review methods and data used for determining astronaut organ dose equivalents on past **space** missions including Apollo, Skylab, **Space Shuttle**, NASA-Mir, and International **Space**

**Select Availability Options
then select +Online**

[Evaluation of the ground contamination environment for STS payloads](#)

Author(s): Borson, E. N.



Term and Navigation Search Example (cont'd)

Search on space shuttle documents available online from NTRS

TERM SEARCH OPTIONS

Select Search Field ^
All

Find Results With
All of the words

Enter Search Term

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[+ GO](#) [+ RESET SEARCH](#)

Search Tips:

- ◆ Use only the fields with ^ to search NIX collection.
- ◆ Enclose terms in double quotation marks (") to search for exact phrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine.
- ◆ Select Reset Search button to start a new search. See [Help](#) for more tips.

NAVIGATION SEARCH OPTIONS

- + Collection
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- + Publication Year
- + Subject
- Availability Options
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 - + JPEG
 - + MPEG
 - + PDF
 - + QUICKTIME
- + Item Media Type

SEARCH NTRS

Selected Navigations:

- ◆ Availability Options > [Online \[X\]](#)

Search Criteria:

- ◆ Search Field: **All** > Results : **All** > Search Term: **space shuttle [X]**

Sort results by: [NASA Center](#) | [Date Added to NTRS](#) | [Publication Year](#)

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[Unsteady Flow Simulation of High-speed Turbopumps](#)

Author(s): Kiris, Cetin C.; Kwak, dochan; Chan, William; Housman, Jeffrey A.
Abstract: ... One example of this type in aerospa**ce** is related to liquid-fueled rocket turbopump. Rocket turbopumps operate under severe conditions at very high rotational speeds typically at ...
NASA Center: Ames Research Center
Publication Year: 2006
Added to NTRS: 2007-03-30
Document ID: 20060024890

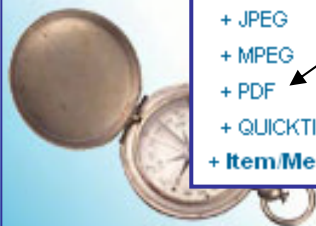
[Space Radiation Organ Doses for Astronauts on Past and Future Missions](#)

Author(s): Cucinotta, Francis A.
Abstract: We review methods and data used for determining astronaut organ dose equivalents on ...
NASA Center: Johnson Space Center
Publication Year: 2007
Added to NTRS: 2007-03-30
Document ID: 20070010704

[Evaluation of the ground contamination environment for STS payloads](#)

Author(s): Borson, E. N.

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Fax: 443-757-5803

E-mail: HELP@STI.NASA.GOV
Subject line: NTRS Comments

Website: <http://www.sti.nasa.gov>

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E-mail: NASA-DL-nix@mail.nasa.gov
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