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California Institute of Technology



Research Center Information
Managers Meeting
Rand Corporation, Santa Monica
November 3-4, 2005

Library,
Archives,
and
Records

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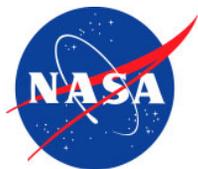
Development and Deployment

- August 1, 2005 - COTS Procurement Finalized
- August 15, 2005 – Vendor Loads Database
- September 1, 2005 – Commercial Databases Configured
- September 15, 2005 – Customizing, creating enduser support documents
- October 15, 2005 – Testing, testing, testing!
- November 15, 2005 – Rollout?



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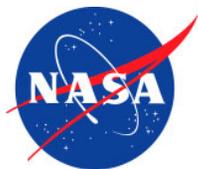
CRITERIA FOR SUCCESS

- ✓ BEACON OneSearch interface searches 8 or more databases
- ✓ Response time within 30 to 60 seconds
- ✓ Returns relevant results
- ✓ Customizable Search Results
- ✓ Metadata/Field Searching Capable
- ✓ Boolean Logic and Phrase Searching Capable
- ✓ Links to the correct full text article
- ✓ JPL users love it!



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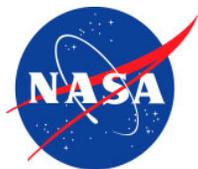
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Test Plan

- Test on different platforms, different browsers
 - ✓ PC, Mac, Unix
 - ✓ Safari, Mozilla Firefox, Internet Explorer, Netscape (different versions!)
 - ✓ Available from offsite, via BrowserRAS?
- Test different databases: WoS, INSPEC, Compendex, CSA Aerospace & Technology DB, CSA Georef
- Test different journal publishers' sites: TORPEDO, AIP/APS, AGU, OSA ... etc.
- Test with digital libraries, IEEExplore, ACM DL
- Use journal publishers site as article suppliers, not search targets





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Basic Search Screen



BEACON-Library, Archives, and Records Section

[Library Home Page](#)

JPL Central Search

Basic Search

[Advanced Search](#)

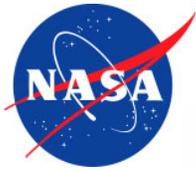
[Search by subject](#) | Search by database

- Select All** - Searches all databases shown below.
- [ACM Digital Library](#) - Journals and meeting transactions from the Association of Computing Machinery, covers all aspects of computer research, applications, and industry.
- [ACS Archives](#) - Abstracts from about 50 journals published by the American Chemical Society
- [Aerospace & High Technology Database](#) - Papers related to aerospace research from over 40 countries. 1962 to present.
- [AIAA Meeting Papers and Journal Articles](#) - Meeting papers from American Institute of Aeronautics and Astronautics.
- [CRC Handbook of Chemistry and Physics](#) - The latest version of this all important reference work.
- [Ei Compendex](#) - The most comprehensive interdisciplinary engineering database in the world. Compendex contains over 8 million records and references over 5,000 international engineering sources including journal, conference, and trade publications. Coverage is from 1969 to present and the database is updated weekly.
- [ENGnetBase](#) - More than 300 handbooks from CRC Press.
- [GeoRef](#) - Provides access to the geoscience literature of the world. Articles, maps, books and other publications.
- [Google Scholar](#) - Web sites from universities, professional societies, reprint repositories, and academic publishers. Many of the full-text articles are made available via JPL Library's subscription.
- [IEEEExplore](#) - Articles and meeting papers on electrical, electronic, and computer engineering from both IEEE and IEE.
- [Inspec](#) - The leading bibliographic information service providing access to the world's scientific and technical literature in Physics, Electrical Engineering, Electronics, Communications, Control Engineering, Computers, Computing, Information Technology, Manufacturing and Production Engineering from more than 4,000 journals and 2,000 conferences.
- [NASA Astrophysics Data System](#) - Papers and reports in astronomy and astrophysics, instrumentation, physics and geophysics, and preprints in astronomy.



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Results Screen



BEACON-Library, Archives, and Records Section

[Library Home Page](#)

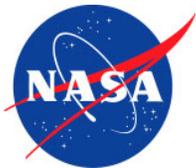
JPL Central Search

Search	Results 1 - 25 of 46 returned for "keyword contains nexis" (111 total)	Export Records
Search Completed		1 - 2 Get More Results >
Refine Search New Search	<p>1. Carbon Film Deposition and Flaking Studies in Ion Thruster Environments Hanna, J,Doerner, R P,Tynan, G R,Yu, J H,Oyarzabal, E,Taylor, K J. 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit; Tucson, AZ; USA; 10-13 July 2005. pp. 1-19. 2005. Show/Hide Abstract</p> <p>2. Characterization of 40-Centimeter Microwave Electron Cyclotron Resonance Ion Source and Neutralizer Foster, John E,Patterson, Michael J. Journal of Propulsion and Power 2005. Vol.21, Iss.5, p.862-869 Show/Hide Abstract More full text options</p> <p>3. Design and Operation of a Multiple-Cathode, High-Power, Rectangular Discharge Chamber Rovey, Joshua L,Gallimore, Alec D. 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit; Tucson, AZ; USA; 10-13 July 2005. pp. 1-16. 2005. Show/Hide Abstract</p> <p>4. Dormant Cathode Plasma Properties and Erosion Analysis in a Multiple-Cathode, High-Power, Rectangular Discharge Chamber Rovey, Joshua L,Gallimore, Alec D. 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit; Tucson, AZ; USA; 10-13 July 2005. pp. 1-19. 2005. Show/Hide Abstract</p> <p>5. Electric Propulsion for JPL Missions Katz, Ira. 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit; Tucson, AZ; USA; 10-13 July 2005. pp. 1-12. 2005. Show/Hide Abstract</p> <p>6. Electric Propulsion Research and Development at JPL D. Goebel, I. Katz, J. Ziemer, J. Brophy, J. Polk, L. Johnson, and A. Sengupta, Jet Propulsion Laboratory, Pasadena, CA. 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Tucson, Arizona, July 10-13, 2005. 2005.</p> <p>7. Electric Propulsion Research and Development at JPL Goebel, Dan M,Katz, Ira,Ziemer, J,Brophy, J R,Polk, J E,Johnson, L. 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit; Tucson, AZ; USA; 10-13 July 2005. pp. 1-12. 2005. 2005. Show/Hide Abstract</p> <p>8. Electric Propulsion System Modeling for the Proposed Prometheus 1 Mission D. Fiehler, GSS Group Inc., Cleveland, OH; R. Dougherty, Jet Propulsion Laboratory, Pasadena, CA; D. Manzella, NASA Glenn Research Center, Cleveland, OH. 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Tucson, Arizona, July 10-13, 2005. 2005.</p> <p>9. Electric Propulsion System Modeling for the Proposed Prometheus 1 Mission Fiehler, Douglas;Dougherty, Rvan;Manzella, David. 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit; Tucson, AZ; USA; 10-13 July 2005. pp. 1-11. 2005.</p>	
Sort Results by:		
Date Title Author Database		
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AIAA Meeting Papers and Journal Articles (69)		
Aerospace & High Technology Database (41)		
IEEEXplore (1)		
NASA Astrophysics Data System (0)		



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1 result found for: an=A05-20-49163 in Aerospace & High Technology Database +

All Publication Types 1 Conferences 1

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1. **LaB6 Hollow Cathodes for Ion and Hall Thrusters**
 Goebel, Dan M.; Watkins, Ron M., 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, Tucson, AZ, USA; 10-13 July 2005, pp. 1-9, 2005
 Deep space missions continue to demand high power ion thrusters and Hall thrusters capable of providing high thrust and longer life. Depending on the thruster size, the hollow cathodes may be required to produce discharge currents in the 10 to 100 A ...
Report Number: AIAA Paper 2005-4239
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Database: Aerospace & High Technology Database
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 Keywords, KW= Insert **Search** **Clear**

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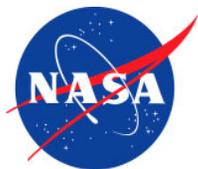
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Options Screen (when article not directly linked)



BEACON-Library, Archives, and Records Section

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[Refine or alter criteria](#)

Journal: Acta astronautica
ISSN: 0094-5765
Article: Microbiological status of cosmonauts during orbital spaceflights on Salyut and Mir orbital stations
Author: ILYIN
DOI 10.1016/j.actaastro.2005.01.009
Volume: 56 Issue: 9-12 Page: 839
Date: 2005

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v.35 (1995) - v.50: no. 1 (2002:Jan.)		JPL Print Holdings
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Additional Information and Contacts

Hendrickson, Susan. *Linking/Metasearch Requirements*, presented at NASA UniLibrary Meeting, July 27, 2005.

<http://trs-new/dspace/handle/2014/37622>

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