

DSpace: Discovery

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Discovery

DSpace Discovery

- The Discovery Module enables faceted searching & browsing for your repository
- Although these techniques are new in DSpace, they might feel familiar from other platforms like Aquabrowser or Amazon, where facets help you to select the right product according to facets like price and brand

More Details: <https://wiki.duraspace.org/display/DSDOC4x/Discovery>

Discovery

Sidebar Facet

- From the user perspective, faceted search (also called faceted navigation, guided navigation, or parametric search) breaks up search results into multiple categories, typically showing counts for each, and allows the user to "drill down" or further restrict their search results based on those facets

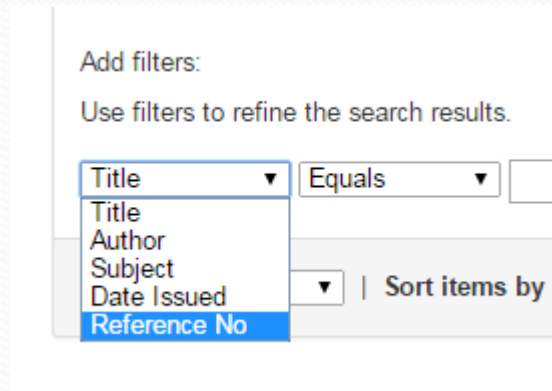
The image shows a search interface with four facets, each with a count of 1. A blue callout box labeled "Custom Discovery Setting" points to the Reference No. facet.

Facet	Value	Count
Author	Burde, Sanjay	1
Subject	H ₂ O	1
	Metadata	1
Date issued	2015	1
Reference No	LIS100	1

Discovery

Search Filter

- In a standard search operation, a user specifies his complete query prior to launching the operation
- If the results are not satisfactory, the user starts over again with a (slightly) altered query

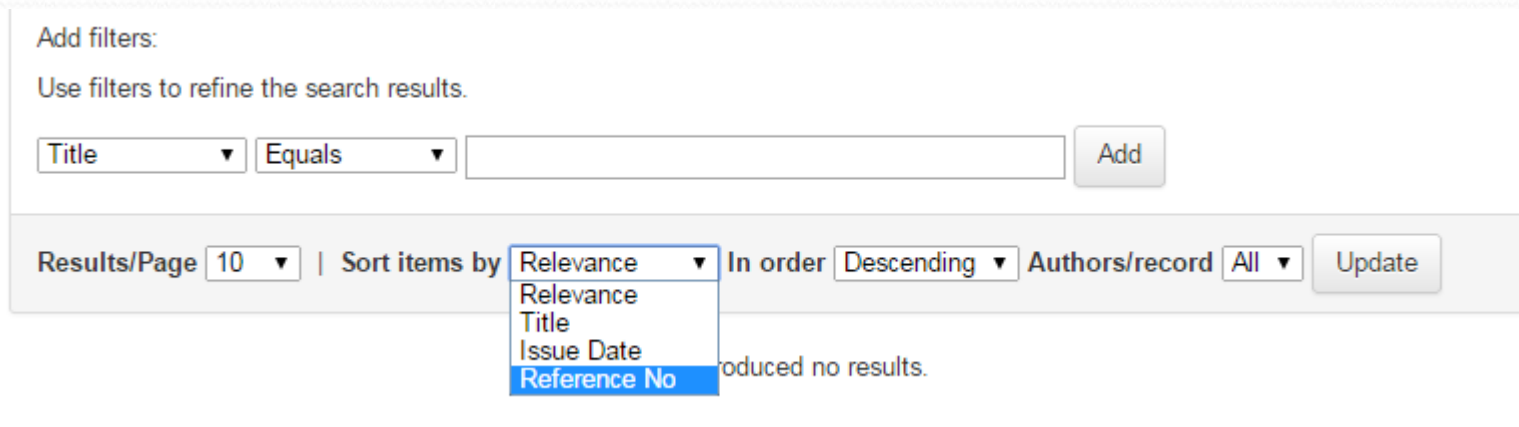


Add filters:
Use filters to refine the search results.

Title ▾ Equals ▾

Title
Author
Subject
Date Issued ▾ | Sort items by

Reference No



Add filters:
Use filters to refine the search results.

Title ▾ Equals ▾ Add

Results/Page 10 ▾ | Sort items by Relevance ▾ In order Descending ▾ Authors/record All ▾ Update

Relevance
Relevance
Title
Issue Date
Reference No

roduced no results.

Discovery

The screenshot shows a DSpace search interface. At the top, there is a green navigation bar with a home icon, 'Home Dspace', 'Browse', and 'Help' links. A search bar contains 'Search DSpace' and a magnifying glass icon. On the right, it says 'Logged in as admin@gmail.com'. Below the navigation bar, the main search area is titled 'Search'. It includes a search type dropdown set to 'All of DSpace', a search input field with 'custom', and 'Go' and 'Start a new search' buttons. Below this is an 'Add filters' section with a note 'Use filters to refine the search results.' and a filter input field with 'Title' and 'Equals' dropdowns and an 'Add' button. Further down are 'Results/Page' (10), 'Sort items by' (Relevance), 'In order' (Descending), 'Authors/record' (All), and an 'Update' button. An 'Export metadata' button is also present. A blue callout box labeled 'Search Filter' points to the filter input field. Below the search controls, a blue bar shows 'Results 1-1 of 1 (Search time: 0.003 seconds)'. A 'previous 1 next' pagination control is visible. The main content area is titled 'Item hits:' and contains a table with the following data:

Issue Date	Title	Author(s)	Reference No.
2015	DSpace customization	Burde, Sanjay	LIS100

On the right side, a 'Discover' sidebar is highlighted with a red border. It contains four facet sections: 'Author' with 'Burde, Sanjay' (1), 'Subject' with 'H₂O' (1) and 'Metadata' (1), 'Date issued' with '2015' (1), and 'Reference No' with 'LIS100' (1). A blue callout box labeled 'Sidebar Facet' points to this sidebar.

Discovery

Custom (metadata) Discovery Settings

e.g.: Reference No. , please refer to word document for discovery.xml (located at: */dspace/config/modules/discovery.cfg* and */dspace/config/spring/api/discovery.xml*)

There are few steps for customize discovery :

- First create bean id
- This bean ID set in the property of
 - SearchFilter
 - FacetSidebar
- SearchFilter and FacetSidebar place at two place
 - defaultConfiguration
 - homepageConfiguration

Note: After every changing need to re-index discovery and restart Apache-Tomcat

Discovery

Custom Discovery Settings ...

Bean ID

```
<bean id="searchFilterRefNo" class="org.dspace.discovery.configuration.DiscoverySearchFilterFacet">  
<property name="indexFieldName" value="refno"/>  
<property name="metadataFields">  
<list>  
<value>dc.refno</value>  
</list>  
</property>  
<property name="facetLimit" value="10"/>  
<property name="sortOrder" value="COUNT"/>  
</bean>
```

Discovery

Custom Discovery Settings ...

SidebarFacets

```
<property name="sidebarFacets">
<list>
<ref bean="searchFilterAuthor"/>
<ref bean="searchFilterSubject"/>
<ref bean="searchFilterIssued"/>
<ref bean="searchFilterRefNo"/>
</list>
</property>
```

SearchFilter

```
<property name="searchFilters">
<list>
<ref bean="searchFilterTitle"/>
<ref bean="searchFilterAuthor"/>
<ref bean="searchFilterSubject"/>
<ref bean="searchFilterIssued"/>
<ref bean="searchFilterRefNo"/>
</list>
</property>
```


Discovery

Custom Discovery Settings ...

defaultConfiguration

```
<bean id="defaultConfiguration" class="org.dspace.discovery.configuration.DiscoveryConfiguration" scope="prototype"
>
<!-- Which sidebar facets are to be displayed -->
<property name="sidebarFacets">
<list>
.
.
.
```

homepageConfiguration

```
<bean id="homepageConfiguration" class="org.dspace.discovery.configuration.DiscoveryConfiguration" scope="prototy
pe">
<!--
Which sidebar facets are to be displayed (same as defaultConfiguration above)
-->
<property name="sidebarFacets">
<list>
```

```
.
.
.
```

Discovery

Custom Discovery Settings ...

For Setting of sort Items order by

Create bean for Sorting

```
<bean id="sortRefNo" class="org.dspace.discovery.configuration.DiscoverySortFieldConfiguration">
<property name="metadataField" value="dc.refno"/>
</bean>
</beans>
```

Set bean in

```
<property name="searchSortConfiguration">
<bean class="org.dspace.discovery.configuration.DiscoverySortConfiguration">
<!--
.
.
<ref bean="sortRefNo"/>
```

At two places: defaultConfiguration and homepageConfiguration

```
<bean id="defaultConfiguration" class="org.dspace.discovery.configuration.DiscoveryConfiguration" scope="prototype"
>
```

AND

```
<bean id="homepageConfiguration" class="org.dspace.discovery.configuration.DiscoveryConfiguration" scope="prototy
pe">
```

Thanks