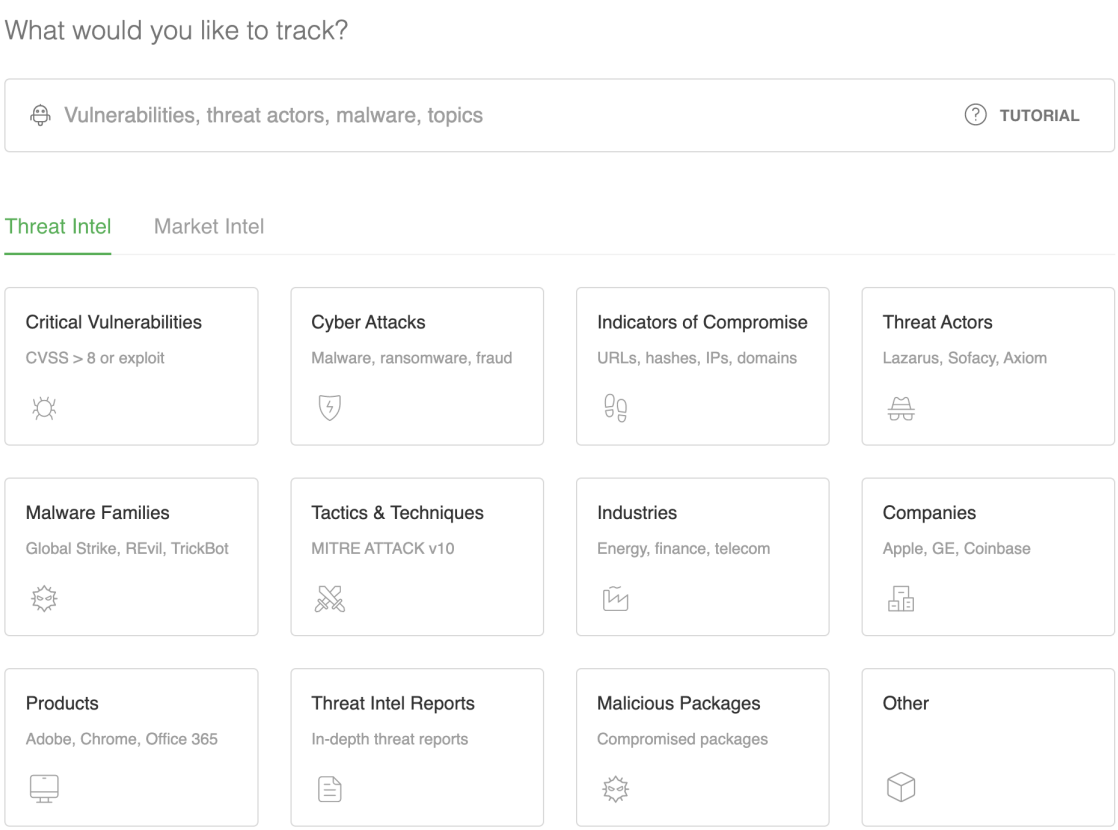
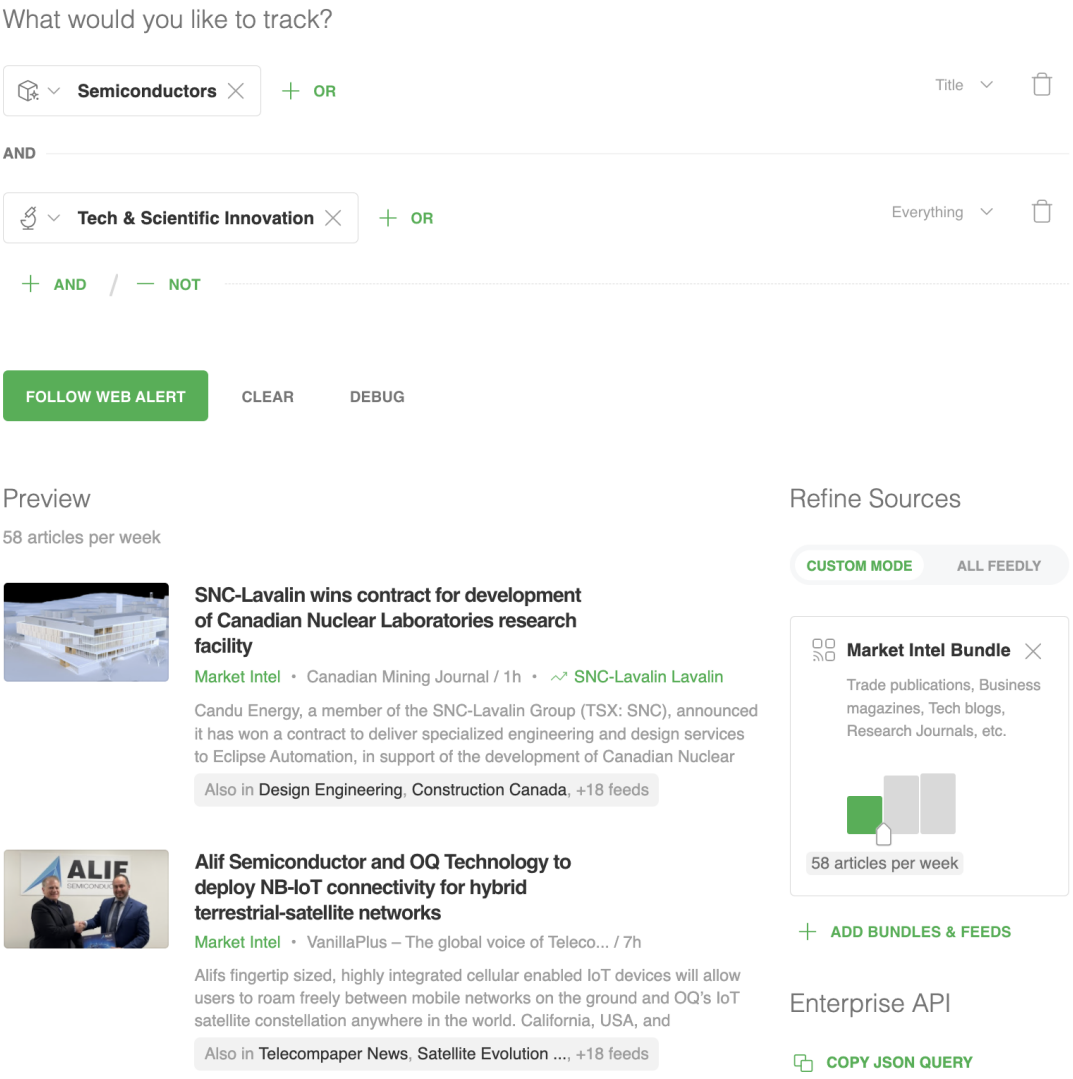
How to access the content of Leo Web Alerts?

In this article, we will show you how to use the Feedly API to collect articles around Semiconductors Innovation (or any other Leo Web Alert).

Step 1: Go to the Leo Web Alerts UI

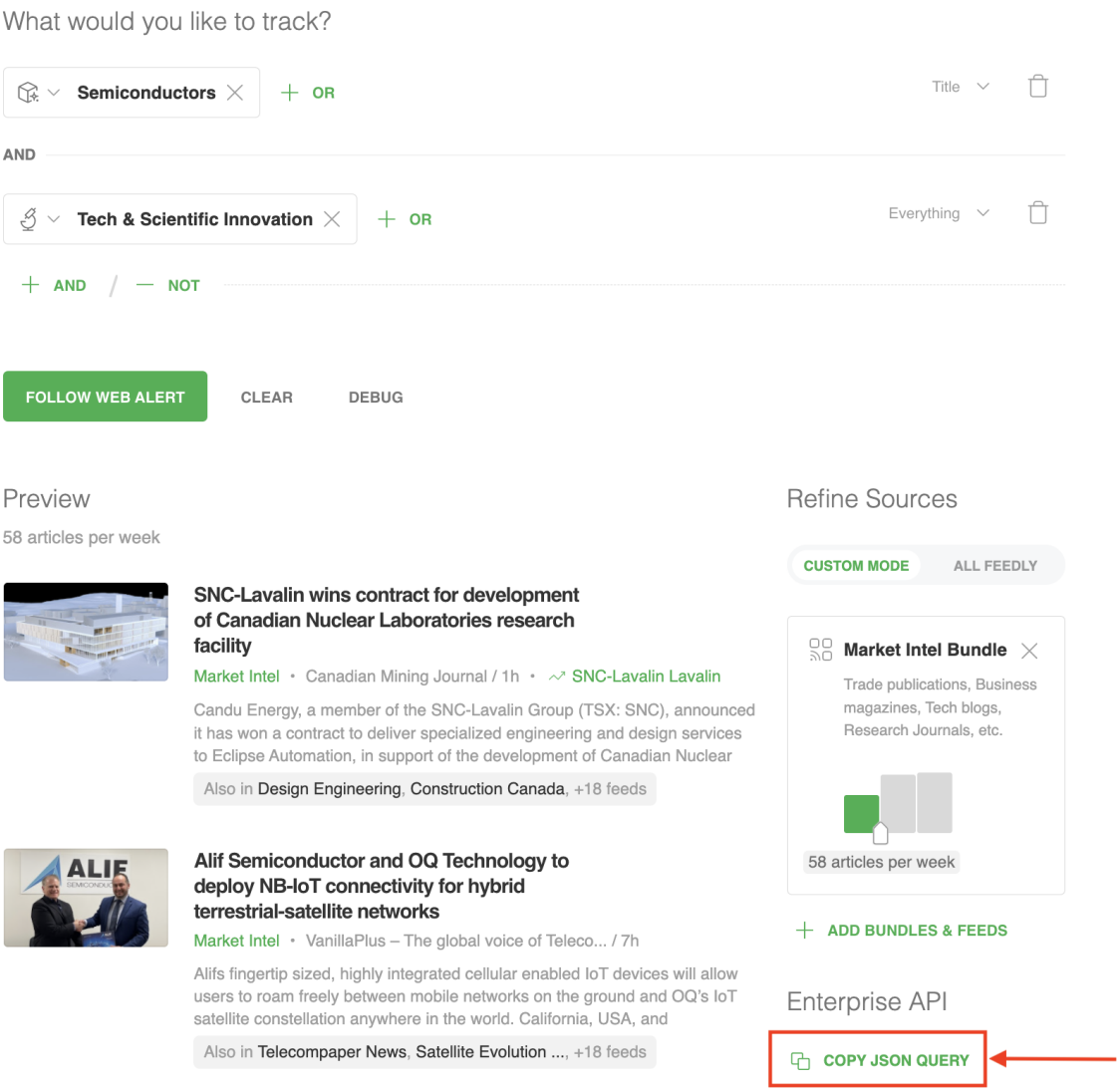


Step 2: Structure your search using Leo Concepts



Example: Using the Leo Semiconductor Leo Concept and the Tech & Scientific Innovation Leo Concept to surface Semiconductors Innovation.

Step 3: Click on the **Copy JSON Query** button to get the JSON body you will need to send to the server to get the same research results using the Feedly Enterprise API.



Step 4: Invoke the v3/search/contents endpoint with the JSON collected above as the JSON body.

```
POST https://feedly.com/v3/search/contents
```

This is an authenticated endpoint so you will need to pass your Enterprise authentication token to be able to perform a search across your team feeds.

It requires some URL parameters:

- **count** *Optional* integer number of articles to return. default is 10.
- **newerThan** *Optional* long timestamp in ms; cannot be older than 31 days ago. If you are querying the search endpoint regularly, it is really important that you pass the newerThan parameter to get new articles published since the last time you performed the query.
- **unreadOnly** *Optional* boolean if true, only unread articles will be returned; default is false. Reminder: entries older than 31 days are automatically marked as read.

- **continuation** *Optional* string a continuation id is used to page through the content. Pass the continuation from a search result to get the next set of results for this search.

But most importantly, it requires **query JSON body you copied earlier**

```
{
  "layers": [
    {
      "parts": [
        {
          "id": "nlp/f/topic/2044",
          "label": "Semiconductors",
        }
      ],
      "salience": "about",
      "type": "matches"
    },
    {
      "parts": [
        {
          "id": "nlp/f/topic/6000",
          "label": "Tech & Scientific Innovation",
        }
      ],
      "type": "matches",
      "salience": "mention"
    }
  ],
  "source": {
    "items": [
      {
        "type": "publicationBucket",
        "id": "discovery:all-topics",
        "tier": "tier3"
      }
    ]
  }
}
```

- **layers** and **parts** allow you to combine multiple terms. Terms included in different layers are combined using an AND operator.
- **salience** allows you to search in the title or the entire body. If salience is set to "mention", Leo will search in the entire content of the article. If salience is set to "about", Leo will search only in the title of the article.
- **source** allow you to determine where Leo should search. In this example, we are specifying tier3 which translates in all the popular sources polled by Feedly.

The HTTP response will be a list of matching articles formatted as JSON

```
{
  "searchElapsedTime": 38,
  "searchTime": 26,
  "updated": 1636732943549,
  "continuation": "17d132f67b2:1ca32cf:7204e97d",
  // Items are the list of matching article. Each article has a JSON representation
  "items": [{
      "fingerprint": "25b7929b",
      "language": "en",
      "id": "1zTXfl639jAOdjjtHPjl9FX7Y+o2aMv2skz8OwhNWwY=_17d14ca3085:4646a:241dd190",
      "originId": "https://www.renewableenergymagazine.com/electric_hybrid_vehicles/storedot-manufactures-silicondominant-anode-extreme-fas
      "origin": {
        "streamId": "feed/http://www.renewableenergymagazine.com/publico/RSS/len/en",
        "title": "Renewable Energy Magazine, at the heart of clean energy journalism",
        "htmlUrl": "https://www.renewableenergymagazine.com"
      },
      "title": "StoreDot manufactures silicon-dominant anode extreme fast-charging (XFC) battery cells on mass production line",
      "crawled": 1636731334789,
      "published": 1636731334789,
      "summary": {
        "content": "Pioneer of extreme fast charging (XFC) battery technology for electric vehicles StoreDot has become the first company t
```

```
      "direction": "ltr"
    },
    "alternate": [
      {
        "type": "text/html",
        "href": "https://www.renewableenergymagazine.com/electric_hybrid_vehicles/storedot-manufactures-silicondominant-anode-extreme-fas
      }
    ],
    "visual": {
      "contentType": "image/jpeg",
      "url": "https://www.renewableenergymagazine.com/ficheroenergias/fotos/articulos/ampliada/x/1xfc_bottom.jpg",
      "processor": "feedly-nikon-v3.1",
      "width": 410,
      "height": 234,
      "expirationDate": 1639324328072,
      "edgeCacheUrl": "https://lh3.googleusercontent.com/eokB7C7asS4sE7BmQw_GzPcsIcYEJTZ1bsl5ggyljQBBlrwlbwXBdaC99r1lfXTcYBV3m_yd9_I0z8Dw
    },
    "canonicalUrl": "https://www.renewableenergymagazine.com/electric_hybrid_vehicles/storedot-manufactures-silicondominant-anode-extreme
    "fullContent": "<div>...html version of the article extracted from the website...<div>",
    "unread": true,
    "related": [
      {
        "entryId": "5J/8v1WJThg8LI1k+ZI6cp78lTICcwM1QD2jSeXftjQ=_17d14844476:21c915b:2c03cbeb",
        "feedId": "feed/http://www.batterypoweronline.com/main/feed/",
        "feedTitle": "Battery Power Online",
        "unread": true
      },
      {
        "entryId": "fszGHCUlqy7qaQD5A/bXZOYJHGG2sFoA9uHOdQlduiA=_17d14c995a6:54ac5:2c03cbeb",
        "feedId": "feed/http://news.google.com/news?pz=1&cf=all&ned=us&hl=en&q=Battery+breakthrough&output=rss",
        "feedTitle": "\"Battery breakthrough\" - Google News",
        "unread": true
      },
      {
        "entryId": "vOp1sJLNztAOH9NnteXVmTl+4ILueN6+yyCbaWI4HJY=_17d01594607:48deeea:241dd190",
        "feedId": "feed/https://news.google.com/rss/search?hl=en-US&gl=US&ceid=US:en&q=Li-ion+OR+lithium-ion+OR+solid-state+OR+silicon+an
        "feedTitle": "\"Li-ion OR lithium-ion OR solid-state OR silicon anode\" - Google News",
        "unread": true
      },
      ],
    // List of topic concepts Leo has associated to this article. Including
    // the semiconductors, and tech and scientific innovation ones.
    "commonTopics": [
      {
        "type": "industryTopic",
        "id": "nlp/f/topic/4016",
        "label": "Energy Industry",
        "score": 0.848,
        "salienceLevel": "about"
      },
      {
        "type": "topic",
        "id": "nlp/f/topic/6000",
        "label": "Tech & Scientific Innovation",
        "score": 0.956,
        "salienceLevel": "about"
      },
      {
        "type": "topic",
        "id": "nlp/f/topic/6002",
        "label": "CXO Mentions",
        "score": 1,
        "mentions": [
          {
            "text": "Dr Doron Myersdorf, StoreDot CEO"
          }
        ],
        "salienceLevel": "about"
      },
      {
        "type": "topic",
        "id": "nlp/f/topic/772",
        "label": "Energy",
        "score": 0.693,
        "salienceLevel": "about"
      },
      {
        "type": "topic",
        "id": "nlp/f/topic/1404",
        "label": "Manufacturing",
        "score": 0.9,
```

```
          "salienceLevel": "about"
        },
        {
          "type": "topic",
          "id": "nlp/f/topic/2044",
          "label": "Semiconductors",
          "score": 0.843,
          "salienceLevel": "about"
        }
      ],
      "entities": [],
      // List of business event concepts Leo has associated to this article.
      "businessEvents": [
        {
          "id": "nlp/f/businessEvent/partnership",
          "label": "Partnership",
          "score": 0.012,
          "salienceLevel": "about"
        }
      ],
      // The top 2 sentences in this article
      "leoSummary": {
        "sentences": [
          {
            "position": 2,
            "text": "“StoreDot’s mission is to provide global automotive manufacturers extreme fast charging technologies that will enable
            "score": 0.43
          },
          {
            "position": 4,
            "text": "These XFC sample cells will shortly be shipped to our global car-making partners for real-world testing and we are con
            "score": 0.375
          }
        ]
      },
      "previewSearchTerms": {
        "parts": [
          {
            "id": "nlp/f/topic/6000",
            "label": "Tech & Scientific Innovation"
          },
          {
            "id": "nlp/f/publicationBucket/byf:industry"
          },
          {
            "id": "nlp/f/topic/2044",
            "label": "Semiconductors"
          }
        ],
        "isComplexFilter": false
      },
    },
    // ... other matching articles...
]}
```


- Each **item** is a matching article
- The **title** of each item is the title of the article
- **alternate.href** will give you access to the URL the article
- **entities** capture the list of companies, people, products Leo has recognized in the content
- **businessEvents** capture the list of events Leo has detected in the content
- **content** or **summary** will give you access to the HTML representation of the article. Some publishers include the entire content in their RSS feeds, some just publish a snippet.
- You can learn more about the JSON structure used to represent articles here:

  What is in RSS and what is augmented by Feedly/Leo?