



Derwent Chemistry Research

Patent intelligence for chemists

Patents are vital for researchers, revealing unique scientific and technical insights often disclosed earlier—or only—in patent filings. They also illuminate competitive activities and emerging technologies, providing foundational information that supports discovery, strategic planning, and innovation.

Critical scientific information is often missed

Patents often contain essential chemical information, but many scientists aren't accustomed or trained to work with patents. Struggling with complex formats, hidden data, and obscure terminology.

Search is time consuming and inefficient

Patent search tools are built for paralegals and attorneys, not chemists. Scientists are required to manually sift through irrelevant documents. Without unified platforms or intuitive search, each new query means starting from scratch, wasting time and increasing the risk of missing key information.

Despite their value, many scientists struggle to effectively access and interpret patents.

Patent language is a barrier

Patents are written for legal protection, not scientific clarity. Chemical details are often deliberately obscured, making it hard for researchers to quickly assess relevance or extract meaningful insights.

Workflow gaps slow innovation

Most tools are designed for IP professionals, not R&D. This creates bottlenecks between scientists and patent experts, forcing time-consuming handovers and duplicative efforts that delay discovery and decision-making.

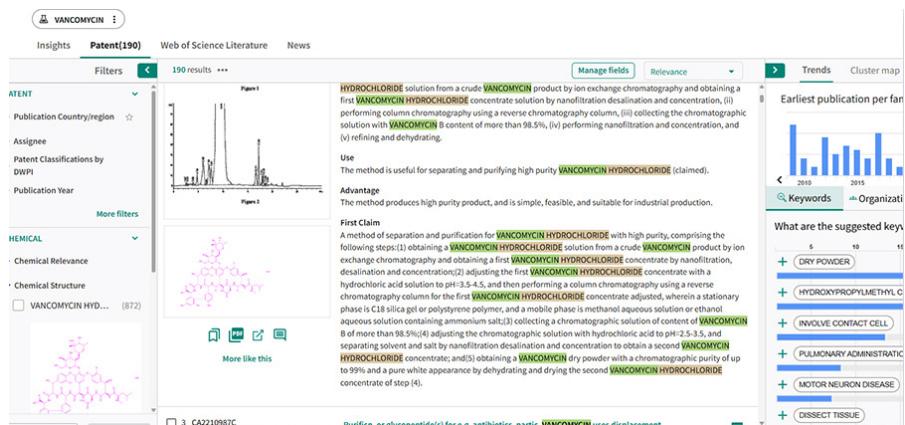
The Consequence?

Missed insights, inefficient teams and prolonged R&D cycles.

With Derwent Chemistry Research, teams can stay ahead. Quickly and accurately accessing the critical patent information and scientific literature needed, right at their fingertips, all in one place.

Chemists! Your next breakthrough is buried in a patent

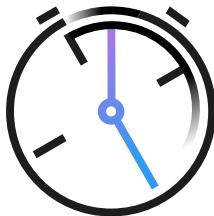
Derwent Chemistry Research is an AI-powered, easy-to-use chemical search software that delivers accurate, reliable results for R&D chemists.



- Deep-indexed data ensures highly relevant results
- AI dashboard provides key insights from your search results to help you focus your research, making it easy to identify key technologies
- Insights page directly shows contribution per assignee, track competitor activities and spot new applications or undeserved opportunities for product development.

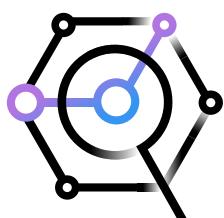
With Derwent Chemistry Research,
quickly search and explore
chemical data and more, to gain
a comprehensive view of current
knowledge and emerging trends.

Key benefits



01. Streamlined research process

Save time reviewing patent content. Derwent Chemistry Research integrates chemical structures, patents, literature, and market news, all in one space, ensuring complete, fast, accurate chemical information for R&D. Supporting you to build your queries with ease.



02. Enhanced insights capabilities

Deep indexing and AI insights offer summaries and visualizations. DWPI expert curated patent abstracts make it easy to quickly understand what a patent is about before spending a lot of time reading through.



03. Reliable and accurate data

Derwent Chemistry Research uses trusted Derwent World Patents Index (DWPI) and Web of Science content for high-quality data, enhancing decision-making, optimizing R&D workflows, and reducing risks.

AI-powered research process



The screenshot shows a search results summary for COVID-19 treatments. It includes a list of patent search results with brief descriptions and links to full patent documents. The results cover various topics such as pharmaceutical compositions, antiviral drugs, and therapeutic agents.

Quickly understand a patent



United States Patent
Huff et al.

(10) Patent No.: US 11,000,886 B2
(45) Date of Patent: *May 11, 2021

(54) PERFLUOROALKYL SUBSTANCES (PFAS) PHYTOREMEDIATION BY MANIPULATING SOIL SALTILITY AND PLANT MANAGEMENT

(58) Field of Classification Search
CPC: 1/105
See application file for complete search history.

(56) References Cited
U.S. PATENT DOCUMENTS
3,564,445 A 11-19-1970 Radin et al.
3,523,941 A1 11-19-1970 Radin et al.
3,595,805 A6 01-25-1971 Van Der Lelie et al. 109C 1,002

OTHER PUBLICATIONS
Sotnicki, K., et al., "Most Recent Citations of Reference A: Status Report," Journal of Forestry, Apr. 1972, pp. 210-213, 4 pages.
U.S. Environmental Protection Agency, "National Environmental Research Program: Status Report on the Use of Phytoremediation to Remediate Contaminated Soils," Environmental Research Laboratory, Oct. 1998, 596 pages.

Abstract
Increasing amount of per- and polyfluoroalkyl substances (PFAS) that plant will accumulate from PFAS contaminated media soil, sediment, and groundwater by growing live selected plants, managing soil salinity, and phytoremediating PFAS.

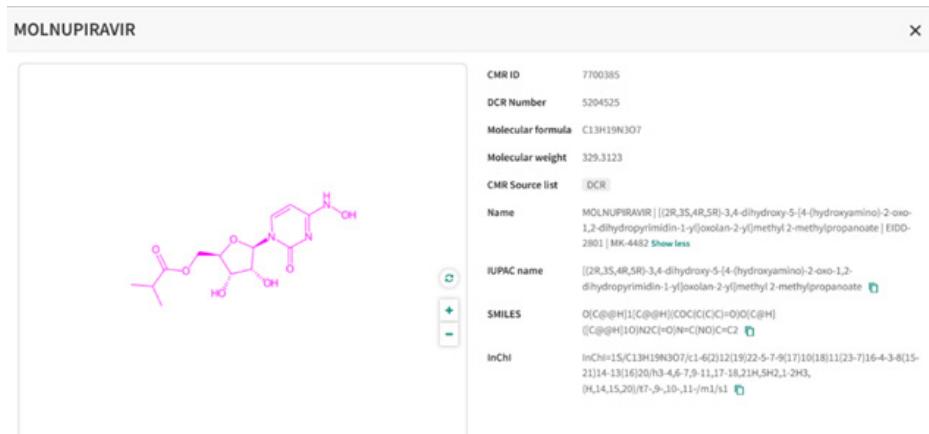
Background
Amount of per- and polyfluoroalkyl substances (PFAS) that a plant will accumulate from PFAS contaminated media soil, sediment, and groundwater, is increased by growing live selected plants in PFAS contaminated media soil, sediments, or groundwater; and providing for phytoremediation via hydroponics of PFAS from PFAS contaminated media soil, sediment, and groundwater using various techniques including managing soil salinity levels to increase ionic strength and salinity of contaminated media soil, sediments, and groundwater with calcium sulfate dihydrate (CaSO₄·2H₂O) and magnesium sulfate dihydrate (MgSO₄·2H₂O) to have a salinity of 1220-4000 g/l.

Use
The method is useful for increasing amount of per- and polyfluoroalkyl substances (PFAS) that a plant will accumulate from PFAS contaminated media soil, sediment, and groundwater.

Advantage
The method can maximize phytoremediation of PFAS at contaminated sites with selected plants.

Keywords
potassium salt; plant management; phytoremediation; manipulate amount; polyfluoroalkyl substance; increase ionic strength; contaminate media; helianthus annuus; cynodon dactylon; pta; brassica juncea.

Enhanced insights capabilities



MOLNUPIRAVIR

CMR ID	7700385
DCR Number	5204525
Molecular formula	C13H19N3O7
Molecular weight	329.3123
CMR Source list	DCR
Name	MOLNUPIRAVIR [(2R,3S,4R,5R)-3,4-dihydroxy-5-(4-hydroxyamino)-2-oxo-1,2-dihydro-4-oxo-1-yl]oxolan-2-yl)methyl-2-methylpropanoate E100-2801 MK-4482 Show less
IUPAC name	[(2R,3S,4R,5R)-3,4-dihydroxy-5-(4-hydroxyamino)-2-oxo-1,2-dihydro-4-oxo-1-yl]oxolan-2-yl)methyl-2-methylpropanoate
SMILES	O=C(O)[@H]1[C@@H](O)C(=O)C(C(=O)O)C(=O)C1=O [(C(=O)O)C1=O]C2=C(O)C(O)=C(C(=O)O)C=C2
InChI	inChI=1S/C13H19N3O7/c1-6(2)12(19)22-5-7(9)10(18)11(23-7)16-4-3-8(15-21)14-13(16)20/h3-4,6-7,9-11,17-18,21H,5H2,1-2H3,(H,14,15,20)/t7-9,-10,-11-/m1/s1

Leverage unique chemistry data, purpose-built to simply search and deliver results

Smarter chemical insights start here

33m+

chemical substances, of which 6m+ are manually indexed by subject matter experts. With curated chemicals from 40 patent offices

72m+

curated, chemistry specific scientific articles searchable with keyword or structure search

60+

patent-issuing authorities covered with chemical compound abstracts, written by subject matter experts



About Clarivate

Clarivate is a leading global provider of transformative intelligence. We offer enriched data, insights & analytics, workflow solutions and expert services in the areas of Academia & Government, Intellectual Property and Life Sciences & Healthcare. For more information, please visit clarivate.com.

Discover solutions at:

clarivate.com

©2025 Clarivate. Clarivate and its logo, as well as all other trademarks used herein are trademarks of their respective owners and used under license.