

Accelerating research and Innovation with CAS & ACS Publications

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**BETWEEN IDEAS AND ANSWERS
ARE CONNECTIONS THAT MATTER**

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BETWEEN IDEAS AND ANSWERS
ARE CONNECTIONS THAT MATTER

CAS SciFinder Discovery Platform for Academics

Informing and enhancing the foundational scientific pursuits in Academia



CAS SciFinder Discovery Platform is designed to support multiple stages and types of scientific research and combines task-specific information solutions, including **CAS SciFinderⁿ**, **CAS Formulus[®]**, and **CAS Analytical Methods[™]** with **ChemZent[®]** and the **CAS Content Collection[™]**, the most complete source of scientific information in the world.

CAS SciFinder Discovery Platform for Academics

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- **Unmatched content**

Directly access to the most comprehensive collection of chemical reactions, substances, patents, and scientific literature.

- **Specialized technology**

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- **Human expertise**

Our scientists work in tandem with technology to identify concepts and relationships beyond keywords.

The screenshot displays the CAS SciFinder Discovery Platform interface. At the top, the CAS SciFinder logo is visible alongside navigation links for 'Saved and Alerts', 'History', and 'Account'. A blue banner below the header contains a message: 'You can now use [BLAST search](#) to mine our newly enhanced collection of more than 500M proteins and nucleotides from 60+ patent authorities dating back to 1957. Plus [visually review sequence similarity and frequency](#) across your patent search results.' The main search area is divided into two sections. On the left, 'Searching for...' offers several search categories: 'All', 'Substances' (which is highlighted with a blue arrow), 'Reactions', 'References', 'Suppliers', 'Biosequences', and 'Retrosynthesis'. On the right, the 'Substances' section features a search bar with the placeholder text 'Enter a query...'. Below the search bar, there is a dropdown menu for 'Molecular Formula' and a 'Draw' button. Examples of search terms are provided: 'C6H6 | (C8H8)x | C22H26CuN2O5.C2H3N'. A link to 'Learn more about SciFinder Advanced Search' is also present.

CAS SciFinder Discovery Platform for Academics

A single-source discovery platform for in-depth, multi-disciplinary scientific methods

The screenshot displays the CAS SciFinder interface. On the left, there is a navigation sidebar with categories: Analyte (680), Matrix (4488), Method Category, Technique, and Year. The main area shows search results for 'Analysis of Dehydroepiandrosterone in Blood plasma by Solid phase extraction' (CAS MN: 2-111-CAS-270275). The results table includes fields for Analyte, Matrix, Other Materials, Method Category (Biomarker, Medicine Assay), Technique, Equipment Used, and Source. A 'Full Text' button is visible at the bottom of the source information.

Field	Value
Analyte	Estradiol; 7 α -Hydroxy-DHEA; Dehydroepiandrosterone; Dihydrotestosterone; Testosterone; Androstenediol; Estrone; Dehydroepiandrosterone sulfate; Androstenedione
Matrix	Blood plasma
Other Materials	Reagent: Dithioerythritol; Ethyl acetate; Ammonium iodide; Methanol; N-Methyl-N-(trimethylsilyl)trifluoroacetamide; Buffers Material: C18 sorbent: HP-ULTRA1 capillary column (17. m \times 0.2 mm I.d.; 0.11 μ m film View All \downarrow
Method Category	Biomarker Medicine Assay
Technique	Electron ionization mass spectrometry; Quadrupole tandem mass spectrometry; Gas chromatography; Solid phase extraction
Equipment Used	Microwave oven; GC system; Triple quadrupole mass spectrometer
Source	Profiling of steroid metabolic pathways in human plasma by GC-MS/MS combined with microwave-assisted derivatization for diagnosis of gastric disorders Lee, Wonwoong; Lee, Hyunjung; Kim, You Lee; Lee, Yong Chan; Chung, Bong Chul; Hong, Jongki International Journal of Molecular Sciences (2021), 22 (4), -. MDPI AG Full Text \downarrow Abstract \downarrow

- **Integrated**
Seamlessly integrated into CAS SciFinderⁿ
- **Comprehensive**
Hundreds of thousands of methods across multiple fields of study, including organic compound, bioassay, and water analysis
- **Focused**
Designed with analytical chemistry processes in mind as a single source for searching and comparing published scientific methods and techniques

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Pharmaceutical Solutions for Delivering Drug to Lung: Drug Delivery Systems or Respiratory System Agents, Etc.

Location: Example 2, Table 2

Purpose: Antiasthmatics, Drug delivery systems, Respiratory system agents

Target: Asthma, Drugs, Homo sapiens, Respiratory system disease

Delivery Route: Inhalation drug delivery systems

Physical Form: Solutions

 Add to Compare

Component	Function	Amount Reported
Salbutamol	hygroscopic agents	0.1 %
Sodium chloride	pharmaceutical excipients	0.1 %
Group: ethanol/water	-	-
Ethanol	cosolvents	50 % v/v
Water	-	50 % v/v

PATENT

Delivery of submicrometer and nanometer aerosols to the lungs using hygroscopic excipients or dual stream nasal delivery

Assignee : Virginia Commonwealth University
US20120251594
Language: English

Patent PDF

View in CAS SciFinder®

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8 Similar Formulations - [View All](#) (opens in a new window) 

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CAS SciFinder Discovery Platform for Academics

Access essential historical chemistry insights with ChemZent®

References search for "Pasteur, L." Author Name

Substances | Reactions | Citing

Filter Behavior: Filter by | Exclude

Document Type: Journal (38), Patent (5), Review (1), Biography (3), Book (2), View All

Language: Undetermined (21), German (17), English (5), French (3)

46 Results | Sort: Publication Date: Oldest | View: Partial Abstract

1

On grape acid
By: PASTEUR, L.
Chemisches Zentralblatt (1849), 20(46), 731-732 | Language: German, Database: CHEMZENT

Machine Translated: The harvested grapes acid has been of KESTNER detected after the discovery but never again. The process has in one quantity of this acid, received from the detector itself bekam with envelope of polarization appa Rates proved, that it consists of two different acid, of which one to the right, the other to the left deflects. This capacity corresponding to designates the same said first Dextroracemsaure, the second Laevoracemsaure (Acide dextroracemique et Uvoracemique). The right ablenkende acid (base is in no respects of the wine acid different. The 1. dextroracemsaure and their salts have now

View More

ChemZent | Full Text

Substances (2) | Reactions (0) | Citing (0) | Citation Map

2

On the aspartic acid and malic acid
By: PASTEUR, L.
Chemisches Zentralblatt (1851), 22(49), 769-772 | Language: German, Database: CHEMZENT

Machine Translated: In its final form of embodiment of malic acid and asparagine acid has Pasteur already indicated, that both the

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Completely Integrated

Indexed to fit seamlessly into CAS SciFinderⁿ workflows with CAS-controlled vocabulary

Ευχαριστώ!


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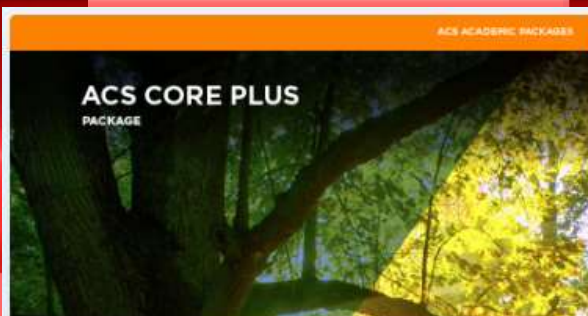
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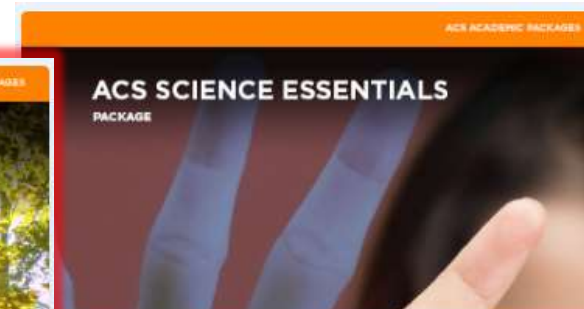
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- 11 fully OA journals

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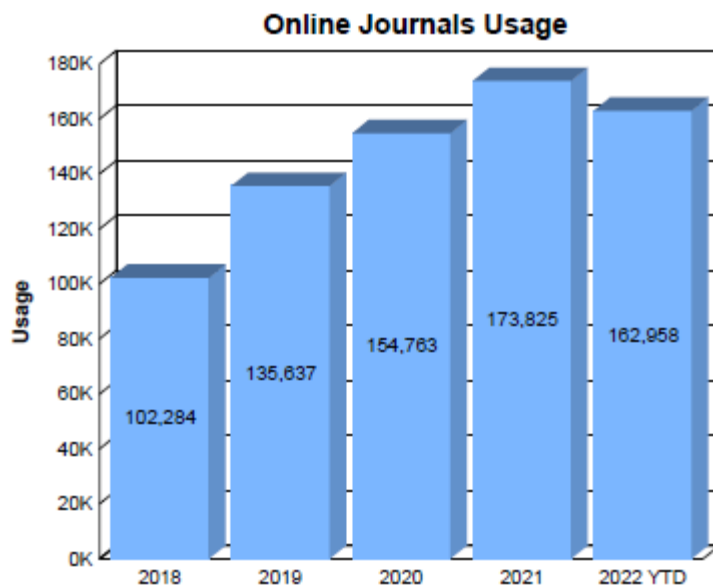


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Top Ten Institutions - Usage in 2021

Journal	Downloads
1 UNIV OF ATHENS	40,516
2 ARISTOTLE UNIV OF THESSALONIKI	24,072
3 UNIV OF PATRAS	22,153
4 UNIV OF CRETE	16,480
5 UNIV OF IOANNINA	13,738
6 NATL TECHL UNIV OF ATHENS	10,420
7 NATL CTR SCNTFC RSRCH DEMOKRITOS	9,876
8 FOUNDATION RSRCH & TECHLGY - HELLA	8,994
9 NATL HELLENIC RESEARCH FOUNDATION	5,091
10 UNIV OF THESSALY	3,195
All Others	19,290
Total	173,825

➤ Access to **21 titles** through the ACS Core Plus Package

➤ **Journal usage in 2021 on those 21 titles only: 173,825**

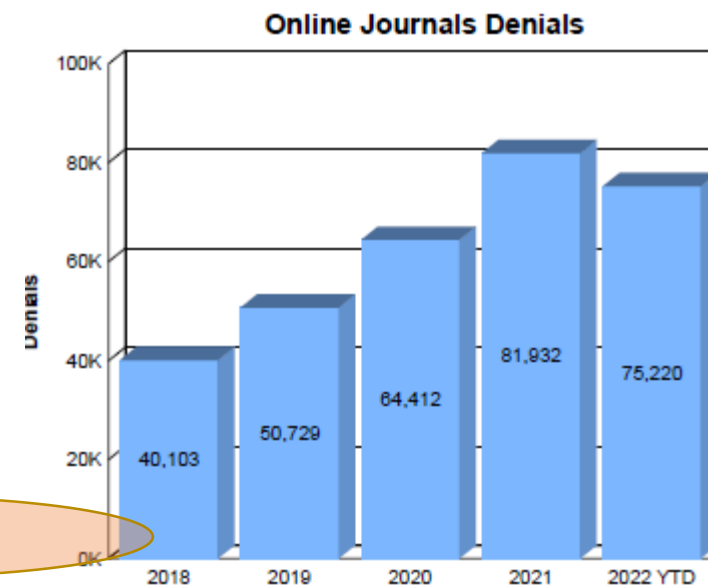
➤ **YTD usage (Setp. 2022): 162,958**

Heal Link & ACS Publications

- 47 ACS journals not available to researchers from Heal Link institutions
- Journal denials in 2021: **81,932**
- YTD denials (Sept. 2022): **75,220**

Top Ten Institutions - Denials in 2021

Journal	Denials
1 UNIV OF PATRAS	14,475
2 UNIV OF ATHENS	12,610
3 ARISTOTLE UNIV OF THESSALONIKI	9,843
4 NATL TECHL UNIV OF ATHENS	6,972
5 NATL CTR SCNTFC RSRCH DEMOKRITOS	5,800
6 UNIV OF CRETE	5,790
7 FOUNDATION RSRCH & TECHLGY - HELLA	5,687
8 UNIV OF IOANNINA	4,668
9 NATL HELLENIC RESEARCH FOUNDATION	2,550
10 TEI OF CRETE	2,062
All Others	11,475
Total	81,932



ACS eBooks with Evidence Based Acquisition (EBA)

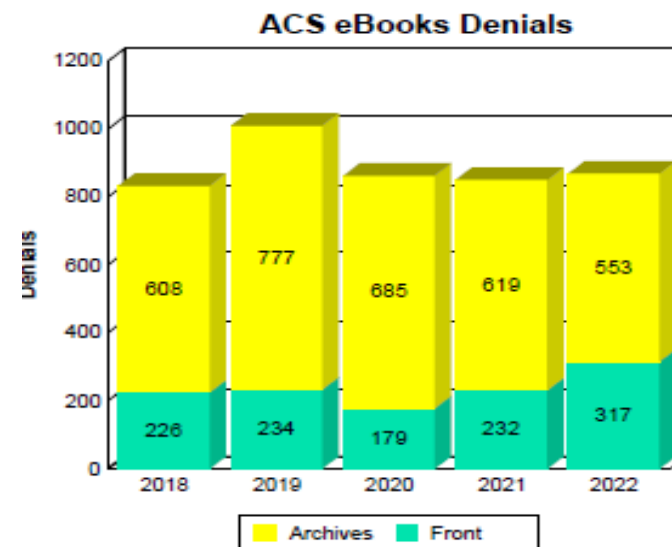
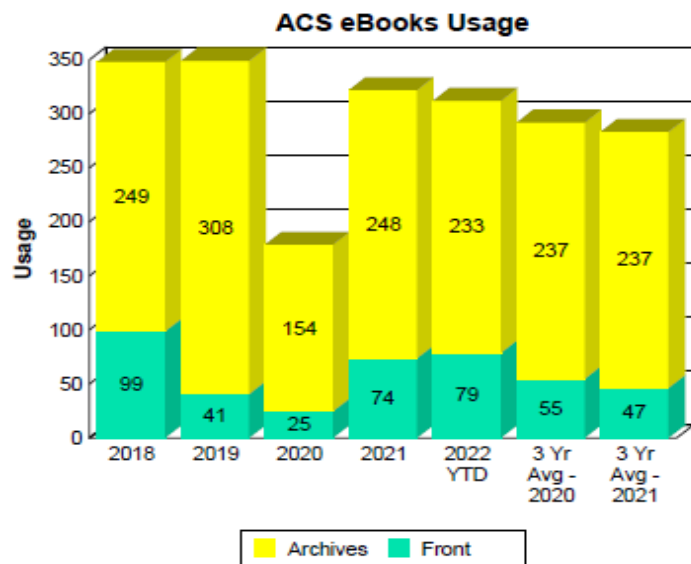


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ACS eBooks and Heal Link Institutions Usage & Denials

2020-2022

Usage: 813
Denials: 3,187



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