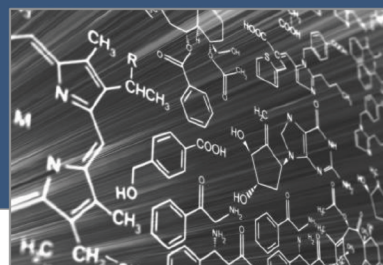
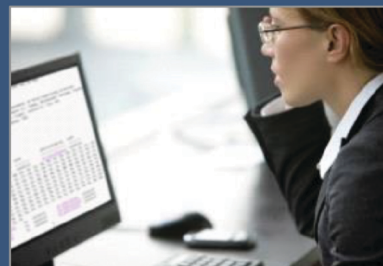


# Switch to STNNext<sup>®</sup>

## STNNext<sup>®</sup> has your favorite STN Express<sup>®</sup> capabilities!

- + Structure draw
- + Transcript export/download
- + Reports from transcripts
- + Analysis on results in history
- + High quality data sources



**STNNext** My Files

Transcript ON 2018\_0202\_Transcript

File CAPLUS

L4 Patent | English 1 of 50

Depth-resolved mid-infrared photothermal imaging of living cells and organisms with sub-micron spatial resolution

PatentPak - Full Text

Inventor Name: Zhang, Delong; Cheng, Ji,Xin  
Patent Assignee: USA  
Accession Number: 2018:636484 CAPLUS  
Document Number (CA Abstract Number): 168:384540  
Source: U.S. Pat. Appl. Publ., 20pp; Chemical Indexing Equivalent to 168:396504 (WO) CODEN: USXXCO  
Entered STN: 30 Mar 2018  
Family Accession Number Count: 2

Systems and methods are disclosed for sensing vibrational absorption induced photothermal effect via a mid-IR visible light source. A Mid-IR photothermal probe (MI-FTP or MIP) approach achieves 10 mM detection sensitivity and sub-micron lateral spatial resol. Such performance exceeds the diffraction limit of IR microscopy and allows label-free three-dimensional chem. imaging of live cells and organisms.

PatentPak Patent Information:

PATENT NO.	KIND	DATE	LANGUAGE	PatentPak
US 20180068041	A1	20180329	English	PDF   PDF+   Interactive
WO 2018064028	A1	20180405	English	PDF

PatentPak Location:  
1314-98.3 | Zinc sulfide, Pg 19  
1315-09.9 | Zinc selenide, Pg 19  
1317-82.4 | Sapphire, Pg 19  
7440-21.3 | Silicon, Pg 19

Submit Draw Scripts

Need help upgrading to STNNext? Check out these informative video resources.

# Do More With STNext

## Take Control of Your Transcripts

- + Rename or download your transcripts while in a session
- + Pause and resume transcript capture
- + Download any transcript in PDF, RTF, TXT or ZIP formats
- + Start a new transcript any time – including retrospective capture
- + Append or overwrite a previous transcript
- + Create folders and move transcripts to stay organized
- + Bulk download all transcripts in a folder
- + Create reports for answers displayed during your session

**1** Access your Transcripts from the My Files menu.

The screenshot displays the STNext interface. At the top, the 'My Files' menu is highlighted with a yellow box and a '1' in a yellow circle. Below it, the 'Transcripts' option is also highlighted with a yellow box and a '1' in a yellow circle. The main content area shows a transcript titled '2018\_0197\_Transcript' with a 'Report' button highlighted by a yellow box and a '2' in a yellow circle. A 'Reporting' dialog box is open, showing options for 'Include L#s', 'Use template', and 'Use format'. The 'Reporting' dialog box has a '2' in a yellow circle next to it. The 'Reporting' dialog box contains the following options:

- Include L#s**
  - L1 POLYDIMETHYLSIL... (5)
  - L2 POLYDIMETHYLSIL... (5)
    - Answer 1
    - Answer 2
    - Answer 3
- Use template**
  - Journal
  - Patent
  - Patent and Journal
  - Substance Report
  - 2018\_0003\_Template
- Use format**
  - Standard
  - Enhanced
  - Table

Buttons: Cancel, Customize, Create

**2**

## Create Reports during your session

- Select Transcripts from the My Files menu.
- Click the ... icon and select Report for a transcript.
- Choose L-numbers and specify answers to report.
- Configure the report parameters using predefined templates or customize.

TIP - You can add a header, footer and cover page to your report.

## Leverage the Power of Structure Searching

- + Import structures in STR, CXF or MOL formats
- + Convert CAS Registry Numbers<sup>®</sup> to structure drawings
- + View attributes of structures to streamline your structure query development
- + Use structure templates to draw a predefined structure
- + Define R-groups, functional groups, VPA and more in your structures
- + Create a reaction query and specify roles for complete structures or substructures

^ => | enter command | Submit | Draw | Scripts

Structure Editor

Click and drag to select objects. Ctrl-click to select or deselect individual objects.

Attribute Values

- Bond Type
  - Chain
  - Ring
  - Ring / Chain
- Bond Value
  - Exact
  - Normalized
  - Exact / Normalized
- Node Type
  - Chain
  - Ring
  - Ring / Chain
- Generic Definition
  - Saturated / Unsaturated
  - Linear / Branched
  - Monocyclic / Polycyclic
  - 1 hetero atom / 2+ hetero atoms
  - 1-6 carbons / 7+ carbons
- Match Level
  - Atom
  - Class
  - Any
- Element Count Level
  - Limited
  - Unlimited
- Other Node Attributes
  - Mass
  - Valency
  - Hydrogen Count
  - Non-Hydrogen Count
  - Element Count

C H O S N P Cl Br F I Si D T

C<sub>9</sub>H<sub>8</sub>O<sub>4</sub> (180.16) 100%

View Previous Structures... Cancel Save Save & Upload

3 Use the Structure Editor to draw or modify substances, import structure files, or convert a CAS Registry Number into a drawing.

My Files

- Alerts
- Transcripts
- Structures
- Scripts

Return to Session

### Structures

Import Structure

- 2018\_0002\_Structure  
Apr 9, 2018, 3:06pm Edit Upload ...
- 2018\_0001\_Structure  
Apr 9, 2018, 3:05pm Edit Upload ...
- 2017\_0002\_Structure  
Dec 18, 2017, 12:01pm Edit Upload ...

4

Structure drawings or substances saved to your Structures list can be uploaded to your query with a simple click.

# Do More With STNext

## Get All the Results

- + Setup single or multi-file Alerts (SDI)
- + Analyze answers from session history
- + Review database and cluster options
- + Leverage the CAS Lexicon

5

Alerts management gives you control over your search results.

Return to Session

### Alerts (SDI)

Sort Creation D

CARBAMATE PRODRUGS

May 1 2018, 11:24 AM	Name	Database	Query	Delivered To
Weekly	AA032/S	CAPLUS	<a href="#">View query</a>	PJAYASIMHA@CAS.ORG

Hide Answer History

Run #	Print Date/Time	Answers	Download Options
17	Apr 27, 2018	8	PDF   RTF   TXT
16	Apr 20, 2018	23	PDF   RTF   TXT
15	Apr 13, 2018	17	PDF   RTF   TXT
		36	PDF   RTF   TXT

History CAS Lexicon Databases

Session

Entered CAPLUS 12:40:30 ON 30 APR 2018

L37 1144 S POLYDIMETHYLSILOXANE

Entered REGISTRY

L38 QUE (1405 03-3 OR 828306-05-4 OR 831 165-06-1 O

L39 QUE (350772-66-6 OR 580201-82-7 OR 541851-23-4 OR 483723-30-4 O

Create an Alert Patent Family Manager

Edit

### Alert Settings

Title \*

Project or Search Name

Method of delivery ONLINE Expires MM/DD/YYYY

Delivery to (separate with comma)

Database settings

Database	Print format	Frequency	Update field code
CAPLUS		Weekly	UP

Eliminate previously seen answers ON Highlight hit terms ON

Send alerts with no answers OFF Delivery notification OFF

Cost center NONE

Advanced

Cancel Save

6

History CAS Lexicon Databases

Glycogen phosphorylase

Clear | Collapse All

- Glycosyltransferase
- Phosphorylase
  - Glycogen phosphorylase** Add All
  - Synonyms Add All
  - Narrower Terms Add All
    - Phosphorylase a
    - Phosphorylase b

OR Add Term

6

Leverage the extensive CAS Lexicon to build your query with synonyms, broader terms, narrower terms and related terms.

Login with your STN login ID at [stn.org](http://stn.org)