

- Subject Coverage**
- Biochemistry
 - Biology
 - Biological materials
 - Biomaterials
 - Biomechanics and human engineering
 - Biomedical engineering
 - Biomedical equipment
 - Biotechnology
 - Genetic engineering
 - Health care
 - Hospital and dental equipment and supplies
 - Prosthetics
 - Rehabilitation engineering

File Type Bibliographic

Features

Alerts (SDIs)	Monthly			
CAS Registry Numbers®	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	STN AnaVist <input type="checkbox"/>
Keep & Share	<input checked="" type="checkbox"/>	SLART	<input checked="" type="checkbox"/>	STN Easy <input type="checkbox"/>
Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>	STN Viewer <input type="checkbox"/>

Record Content

- Bibliographic information, indexing, and abstracts.

File Size

- 976,111 citations (12/09)

Coverage 1982-present

Updates Monthly

Language English

Database Producer

Cambridge Scientific Abstracts
 7200 Wisconsin Avenue
 Bethesda, MD, 20814
 U.S.A.
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E-mail: helpdesk@fiz-karlsruhe.de

- Sources**
- Journals
 - Books
 - Conference proceedings
 - Patents
-

- User Aids**
- Online Helps (HELP DIRECTORY lists all help messages available)
 - STNGUIDE
-

- Clusters**
- [ALLBIB](#)
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 - [CHEMENG](#)
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Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (*).

General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from the abstract (AB), classification code (CC), controlled term (CT), title (TI) and uncontrolled term (UT) fields)	None or /BI	S EXPERIMENTAL STUDY S HIGH(L)ACCELERATION S ?PRODUCTION	AB, CC, CT, TI, UT
Abstract	/AB	S ENZYME STABILITY/AB	AB
Accession Number	/AN	S 2004000021/AN	AN
Author	/AU	S SMITH ?/AU S SMITH, AD/AU	AU
Classification Code (code and text) (1)	/CC	S 01002/CC S PEPTIDES PROTEINS/CC	CC
Controlled Term	/CT	S MANAGEMENT SCIENCE/CT	CT
Controlled Word	/CW	S PROTEIN/CW	CT
Corporate Source (incl. author's affiliation) (1)	/CS	S TECHNICAL RESEARCH CENTRE/CS	CS
Data Entry Date (2)	/DED	S DED=JAN 1998	DED
Document Number	/DN	S 1014834/DN	DN
Document Type (code and text)	/DT (or /TC)	S BOOK/DT S B/DT	DT
E-mail Address (1)	/EML	S CUSTSERV@WILEY.COM/EML	EML, SO not displayed
Field Availability	/FA	S AB/FA	ISN, SO
International Standard (Document) Number (ISBN and ISSN)	/ISN	S 0945-0084/ISN	
Journal Title (contains full and abbreviated titles)	/JT	S J ACOUST SOC AM/JT S JOURNAL OF ADVANCED MATERIALS/JT	JT, SO, JTA, JTF
Language (ISO code and text) Note (1)	/LA /NTE	S L1 NOT ENGLISH/LA S TRANSLATION/NTE	LA NTE
Number of Report	/NR	S DOE/BP-257/NR	NR
Other Source	/OS	S POLLUTION ABSTRACTS/OS	OS
Patent Country (WIPO code and text)	/PC	S US/PC S UNITED STATES/PC	PI
Patent Number (3)	/PN (or /PATS)	S US5561056/PN	PI
Publication Date (2)	/PD	S JAN 2001-MAY 2001/PD	PD, SO
Publication Year (2)	/PY	S PY>=1999	PY, SO
Publisher (1)	/PB	S SPRINGER VERLAG/PB	PB
Source (contains journal titles, other higher level titles, publisher and place of publication, patent information meeting information, collation information (volume, issue, pages), ISSN, ISBN, reference count, and publication year, URL and email addresses)	/SO	S EUROPEAN AEROSOL CONFERENCE/SO S ELSEVIER/SO AND OXFORD/SO S MATERIALS/SO AND 230/SO	SO
Summary Language	/SL	S L2 NOT FRENCH/SL	SL
Title	/TI	S LACTIC ACID/TI	TI
Uniform Resource Locator (1)	/URL	S ELSEVIER/URL	URL, SO
Update Date (2)	/UP (or /ED)	S UP=JUN 2004	UP
Word Count, Title (2)	/WC.T	S WC.T<10 AND L1	WC.T

BIOENG

- (1) Search with implied (S) proximity is available in this field.
 (2) Numeric search field that may be searched using numeric operators or ranges.
 (3) Numbers are searchable in STN and Derwent format.

DISPLAY and PRINT Formats

Any combination of formats may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI AU. The fields are displayed or printed in the order requested.

Hit-term highlighting is available for all fields. Highlighting must be ON during SEARCH to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB AN AU CC CS CT DED (1) DN DT (TC) EML (1) FS (1) JT (1) JTA (1) JTF (1) LA NR NTE OS PB (1) PD (1) PY (1) SL SO TI UP (ED) (1) URL (1) UT WC.T (1)	Abstract Accession Number Author Classification Code Corporate Source Controlled Term Data Entry Date Document Number Document Type E-mail Address File Segment Journal Title Journal Title, Abbreviated Journal Title, Full Language Number of Report Note Other Source Publisher Publication Date Publication Year Summary Language Source Title Update Date Uniform Resource Locator Uncontrolled Term Word Count, Title	D TI AB D 1-5 AN D AU TI D CC D CS D CT D DED D DN D DT D EML D FS D JT D JTA D JTF D LA TI D NR D NTE D OS D PB D PD D PY D SL D SO D TI 1-3 D UP D URL D UT D WC.T
ABS ALL DALL IALL BIB IBIB IND SCAN (2) TRIAL (TRI, SAM, SAMPLE, FREE)	AN, AB AN, DN, TI, AU, CS, SO, NR, DT, LA, SL, NTE, OS, AB, CC, CT, UT ALL, with delimiter for post processing ALL, indented with text labels AN, DN, TI, AU, CS, SO, NR, DT, LA, SL, NTE, OS (BIB is default) BIB, indented with text labels AN, CC, CT, UT TI, CT (random display without answer numbers) AN, TI, CC, CT, UT	D ABS D 1-3 ALL D DALL D IALL D 8 BIB D IBIB D IND D SCAN D TRI
HIT KWIC OCC	Hit term(s) and field(s) Up to 50 words before and after hit term(s) (KeyWord-In-Context) Number of occurrences of hit term(s) and field(s) in which they occur	D HIT D KWIC D OCC

- (1) Custom display only.
 (2) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y	N
Accession Number	AN	Y	N
Author	AU	Y	Y
Citation	CIT (RE)	Y (2,3)	N
Classification Code	CC	Y	Y
Controlled Term	CT	Y	N
Corporate Source	CS	Y	Y
Data Entry Date	DED	Y	Y
Document Number	DN	Y	N
Document Type	DT (TC)	Y	Y
E-mail Address	EML	Y	Y
International Standard (Document) Number	ISN	Y (4)	Y
International Standard Book Number	ISBN	N	Y
International Standard Serial Number	ISSN	N	Y
Journal Title	JT	Y	Y
Journal Title, Abbreviated	JTA	Y (5)	Y
Journal Title, Full	JTF	Y (5)	Y
Language	LA	Y	Y
Note	NTE	Y	Y
Number of Report	NR	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Other Source	OS	Y	Y
Patent Number	PN (PI)	Y	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y	Y
Publisher	PB	Y	Y
Source	SO	Y (6)	Y
Summary Language	SL	Y	Y
Title	TI	Y (default)	Y
Uncontrolled Term	UT	Y (7)	Y
Uniform Resource Locator	URL	Y	Y
Update Date	UP (ED)	Y	Y
Word Count, Title	WC.T	Y	Y

- (1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
- (2) SELECT or ANALYZE HIT are not valid with this field.
- (3) SELECT or ANALYZE CIT allows you to extract the reference from the source documents in this file and have them automatically converted to a citation format for searching in the SCISEARCH file. SEL or ANALYZE CIT extracts first author, publication year, volume, first page, with a truncation symbol and with /RE appended to the terms created by SELECT.
- (4) Selects or analyzes ISSN and ISBN with /ISN appended to the terms created by SELECT.
- (5) Appends /JT to the terms created by SELECT.
- (6) Selects or analyzes ISSN and ISBN with /SO appended to the terms created by SELECT.
- (7) Appends /BI to the terms created by SELECT.

Sample Record**DISPLAY ALL**

AN 2004466256 BIOENG
 DN 5887012
 TI Development of a high cell-density fed-batch bioprocess for the heterologous production of 6-deoxyerythronolide B in Escherichia coli
 AU Lau, J; Tran, C; Licari, P; Galazzo, J
 CS Department of Process Science, Kosan Biosciences, Inc. 3832 Bay Center Place, Hayward, CA 94545, USA, [mailto:lau@kosan.com]
 SO Journal of Biotechnology [J. Biotechnol.]. Vol. 110, no. 1, pp. 95-103. May 2004.
 Published by: Elsevier Science B.V., P.O. Box 211 Amsterdam 1000 AE Netherlands, [mailto:nlinfo-f@elsevier.nl], [URL:<http://www.elsevier.nl/>]
 ISSN: 0168-1656
 DT Journal
 LA English
 SL English
 OS Agricultural and Environmental Biotechnology Abstracts; Microbiology Abstracts A: Industrial & Applied Microbiology
 AB A robust high cell-density fed-batch bioprocess was developed for the heterologous production of 6-deoxyerythronolide B (6-dEB), the macrocyclic core of the antibiotic erythromycin, with a recombinant Escherichia coli strain expressing the 6-deoxyerythronolide B synthase (DEBS) from Saccharopolyspora erythraea. Initial evaluation of the E. coli strain in a 5-l bioreactor with the addition of exogenous propionate for polyketide biosynthesis resulted in a maximum cell density of 30 g l super(-1) (OD sub(600) 60) and the production of 700 mg l super(-1) of 6-dEB. Retention of the two plasmids harboring the heterologous genes was maintained between 90 and 100% even in the absence of antibiotic selection. However, the accumulation of excess ammonia in the culture medium was found to significantly decrease the productivity of the cells. Through optimization of the medium composition and fermentation conditions, the maximum cell density was increased by two-fold, and a final titer of 1.1 g l super(- 1) of 6-dEB was achieved. This represents an 11-fold improvement compared to the highest reported titer of 100 mg l super(-1) with E. coli as the production host.
 CC 32580 Fermentation and process engineering; 01085 Erythromycins, carbomycins, spiramycins & oleandomycins; 320 Cell Culture & Batch Fermentation; 32370 Antibiotics and antitumor agents
 CT Fed-batch culture; Erythromycin; Bioreactors; Cell density; Ammonia; Fermentation; Escherichia coli
 UT 6-deoxyerythronolide B

In North America

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