

Analytical Abstracts

Date revised: 29 July 2021

Description

Analytical Abstracts covers all aspects of analytical chemistry in a wide variety of areas including general applications, biochemistry and clinical chemistry, industrial and applied science, environmental science, agriculture and food, pharmaceuticals and instrumentation.

Subject Coverage

Designed specifically to meet the needs of the analytical scientist, *Analytical Abstracts* provides solutions to problems in all fields of analytical chemistry, including:

- General
- Inorganic
- Organic
- Industrial
- Biochemical
- Pharmaceutical
- Food
- Agricultural and Environmental
- Computer Handling of Analytical Data
- Instrumentation

Date Coverage

1978 – present

Update Frequency

Weekly

Geographic Coverage

Global

Document Types

- Reports
- Books and Monographs
- Conferences, Symposia, Meetings
- Journal Articles

Publisher

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TI

Possibilities of micro X-ray fluorescence spectrometry of solutions with preconcentration.

AU,
AUFN,AULN

Bolotokov, A A; Gruzdeva, A. N.*; Khamizov, R K; Kumakhov, M A. **Journal of Analytical Chemistry (Translation of Zhurnal Analiticheskoi Khimii)** 69.8 (Aug 2014): 728-734.
 Pricing

AB

Abstract (summary) [Translate](#)

Results of investigations in energy-dispersive X-ray fluorescence analysis aimed at the development of a high-sensitivity method of microanalysis of solutions are presented. A combined scheme of analysis of one drop of solution of the volume several microliters is proposed and tested. The scheme includes a new preconcentration method based on the drop evaporation in the presence of a micrograin of a hydrophilic adsorbent followed by the microanalysis of the solid phase on the portable device with a polycapillary lens with a focal spot of 10 μm designed at the Institute of Physical Optics. Analytically meaningful X-ray fluorescence spectra are obtained using DETATA (grain diameter about 100 μm) and SAC8 (50 μm) adsorbents and individual drops of model solutions containing Mn, Fe, Co, Ni, Cu, and Zn (0.2 mg/L and higher) and analytical characteristics of the proposed approach are demonstrated.

CC

Indexing (details) Cite

Classification H 20000: Environmental, Agriculture and Food
D1: Inorganic and Organic Analysis

AYT

Analyte
Analyte: cobalt
Analyte CAS: 7440-48-4;
Analyte: copper
Analyte CAS: 7440-50-8;
Analyte: iron
Analyte CAS: 7439-89-6;
Analyte: manganese
Analyte CAS: 7439-96-5;
Analyte: nickel
Analyte CAS: 7440-02-0;
Analyte: zinc
Analyte CAS: 7440-66-6

MTX

Matrix Matrix: water

TNQ

Technique Technique: extraction, solid-phase (SPE);
fluorimetry;
multielement analysis

SUBST,RN

Substance
Substance: cobalt
CAS: 7440-48-4
Substance: copper
CAS: 7440-50-8
Substance: iron
CAS: 7439-89-6
Substance: manganese
CAS: 7439-96-5

		Substance: nickel
		CAS: 7440-02-0
		Substance: zinc
		CAS: 7440-66-6
TI	Title	Possibilities of micro X-ray fluorescence spectrometry of solutions with preconcentration.
AU, AUFN, AULN, AF	Author Correspondence author	Bolotokov, A A; Gruzdeva, A. N.*; Khamizov, R K; Kumakhov, M A Gruzdeva, A N alexgruzdeva@yandex.ru, Vernadsky Institute of Geochemistry and Analytical Chemistry, Russian Academy of Sciences, Russia.
LA, SL	Language	English
DTYPE, PUB	Language of abstract Document type	English Article
VO, ISS	Publication title Volume	Journal of Analytical Chemistry (Translation of Zhurnal Analiticheskoi Khimii) 69
PG, ISSN, CODEN	Issue Pagination ISSN	8 728-734 1061-9348
PSTYPE, PD, YR	CODEN Publication type Publication date	JACTE2 Journal Aug 2014
AN	Source attribution Accession number	Analytical Abstracts, © Publisher specific AAN7647H10049
FAV, UD	Document URL Copyright First available Updates Database	http://search.proquest.com/professional/docview The Royal Society of Chemistry 2014-12-02 2014-12-02 Analytical Abstracts (1978 - current)

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Field Name	Field Code	Example	Description and Notes
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Abstract present	ABANY	"hydrophilic adsorbent" AND abany(yes)	Add: <i>AND ABANY(YES)</i> to a query to limit retrieval to records with abstracts.
Accession number	AN	an(AAN7647H10049)	A unique document identification number assigned by The Royal Society of Chemistry.
All fields	ALL	all(spectro*) all(spectrometric NEAR/5 detection)	Searches all fields in bibliographic files. Use adjacency and/or Boolean operators to narrow search results.
All fields + text	--	spectro* spectrometric N/5 detection	Same as ALL field code: searches all fields.
Analyte	AYT	ayt(cobalt) rn(7440-48-4) ayt(zinc LNK 7440-66-6)	AYT searches analyte, analyte description, and analyte CAS. "Analyte" is the substance being analyzed. Add: <i>-A</i> to a CAS Registry number to limit searching to the Analyte CAS Reg no. Elements within a field may be searched using LNK.
Author ¹ Author First Name Author Last Name	AU AUFN AULN	au("khamizov, r k") aufn(r*) auln(khamizov)	Includes all authors. Also searchable via the Look Up Citation tool.

¹ A Lookup/Browse feature is available for this field in the Advanced Search dropdown or in Browse Fields.

Field Name	Field Code	Example	Description and Notes
First author	FAU	fau("bolotokov a a")	First name listed in Author field. First author is included in Author browse, but its position cannot be specified in the Author browse.
Author affiliation	AF	af(Vernadsky Institute of Geochemistry PRE/8 russia)	Displays as Author affiliation or in Correspondence author field.
Availability	AV	av(www.ist-spe.com)	
CAS® Registry Number	RN, SUBST	rn(7439-89-6)	Also searchable using the Substance field code (SUBST).
Classification	CC, CL	cc(D1: inorganic and organic Analysis)	
CODEN	CODEN	coden(jacte2)	
Conference information	CF	cf("15th International Conference on Flow Injection Analysis")	Can contain the conference name, location and date.
Document title	TI	ti("Possibilities of micro X-ray fluorescence spectrometry")	Also searches alternate title and subtitle. Use adjacency and/or Boolean operators to narrow search results. Searching a phrase without quotes or Boolean operators, assumes an AND operation.
Title only	TIO	tio(infrared)	Searches the Title only (not the Alternate Title)
Document type	DTYPE	dtype(article)	
First available	FAV	fav(2014-12-02)	Indicates the first time a document was loaded in a specific database on PQD. It will not change regardless of how many times the record is subsequently reloaded, as long as the accession number does not change.
From database ²	FDB	ti("liquid chromatography") AND fdb(ANALYTICALABSTRACTS) ti("liquid chromatography") AND fdb(1008205)	Useful in multi-file searches to isolate records from a single file. FDB cannot be searched on its own; specify at least one search term then AND it with FDB.
ISBN	ISBN	isbn(978 92 4 158075 0)	
ISSN	ISSN	issn(1061-9348) issn(10619348)	Use of hyphens is optional. Also searchable via the Look Up Citation tool.
Issue	ISS	iss(8)	Also searchable via the Look Up Citation tool.
Journal name	JN	jn(sensors) jn("food chemistry")	Journal names only. For names of other publication types, use PUB. Also searchable via the Look Up Citation tool for Publication name.
Language	LA	la(english) la(english OR french)	The language in which the document was originally published.
Language of abstract	SL	sl(english)	
Matrix	MTX	mtx(water) mtx(olive LNK "detmn of VOC" LNK 8001-25-0) rn(8001-25-0-M)	Searches matrix, matrix description, and matrix CAS Registry Number. "Matrix" is the medium where the analyte is being analyzed. Elements within a field may be searched using LNK. Add: -M to a CAS Registry number to limit searching to the Matrix CAS Reg no.

² Click the "Field codes" hyperlink at the top right of the Advanced Search page. Click "Search syntax and field codes", then click on "FDB command" to get a list of database names and codes that can be searched with FDB.

Field Name	Field Code	Example	Description and Notes
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Pagination	PG	pg(728-734)	Start page is also searchable via the Look Up Citation tool.
Start page	PAGE	page(728)	Start page is also searchable via the Look Up Citation tool.
Publication date	PD	pd(201408) pd(>=20140101) pd(20130101-20130630)	Date range searching is supported.
Publication title ¹	PUB	pub("journal of analytical chemistry")	Look Up list is available. Title of publication where document originally appeared, usually a periodical title. May include alternate publication titles.
Publication year	YR	yr(2011) yr(2012-2013) yr(>=2010)	Date range searching is supported. Also searchable with PY.
Publication type	PSTYPE	pstype(journal)	
Record type	RTYPE	rtype(journal) rtype(book)	
Report number	RP	rp(IST 1016 A)	
Source information	SRC	src(journal NEAR/3 pharmaceut* AND 5)	Includes Publication title, Volume, Issue, ISSN, Publication date and Pagination. Also searchable via the Look Up Citation list.
Subject ¹	SU	su(electrodes) su("flow-injection analysis")	Searches analytes, techniques, matrix. Includes Descriptors.
Substance	SUBST	subst(manganese) subst(7439-96-5)	Includes substance name and CAS Registry Number (RN).
Technique	TNQ	tnq(fluorimetry)	Searches technique and technique description. "Technique" is the method used for analysis.
Title (document)	TI	ti("Possibilities of micro X-ray fluorescence spectrometry")	Also searches alternate title and subtitle. Use adjacency and/or Boolean operators to narrow search results.
Updated	UD	ud(2014-12-02)	The date(s) the record was loaded as a result of an update provided by the supplier.
Volume	VO	vo(69)	Also searchable via the Look Up Citation tool.

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Limit options

Limit options are quick and easy ways of searching certain common concepts. A check box is available for:

Abstract included

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Document type, Language, Classification

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Detailed view result listing	Same as Brief view plus a 3-line KWIC window	✓	
KWIC (Keyword in context)	Detailed view plus all occurrences of your search terms, highlighted within the fields where the terms occur	✓	✓
Preview	Title, Author, Publication title, Volume, Issue, Pagination, Publication date, Abstract, Subject	✓	

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⁵ For example, if you choose to output in XML, you can only get the most complete record available. Text Only, PDF, RTF, and HTML output options allow the most format choices.

Document format	Description	Online	Export/Download
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Citation/Abstract	Complete bibliographic record	✓	✓
Custom	To design your own download format, choose the “Custom” format option in the Export/Save menu, and check the fields to be downloaded.		✓ ⁶

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