

Electronics and Communications Abstracts

FILE DESCRIPTION

Electronics and Communications Abstracts covers advances in the fields of electronic engineering and communications. Coverage includes theory, experiments, materials, equipment, and applications.

SUBJECT COVERAGE

Major areas of coverage include:

- Circuits
- Communications Milieux
- Components and Materials
- Control and Systems
- Electromagnetics
- Electronics
- Instrumentation
- Photonics
- Power Systems
- Resonance
- Telecommunications
- Telecommunications Equipment
- Theoretical Issues

SOURCES

Literature indexed includes journal articles, conference papers, technical reports, books, monographs, standards, news briefs, and other document types as appropriate, from more than 3,000 serial and non-serial sources.

TIPS

USE FILE 57

to search for information relating to electronics and communications topics.

USE /TI AND /DE

for precise subject searching:

S METAL(W)VAPORS/TI,DE

USE SUBJECT CATEGORIES or SUBJECT CATEGORY CODES

to narrow a search to a topic.

S SH=COMPONENTS "AND" MATERIALS?

S SC=20

USE RANK

to find experts working in an area of interest.

S DIAGNOSTIC SYSTEM?

RANK AU

DIALOG FILE DATA

Inclusive Dates: 1981 to the present

Update Frequency: Monthly

File Size: More than 287,000 records as of July 2005

CONTACT

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SAMPLE RECORD

DIALOG(R)File 57: Elect. & Comm. Abstracts
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AA= 0000010861
IP ACCESSION NO: 200504-20-05097

/TI X-ray diagnostics of heterostructures with quantum dots
AU= Yakunin, S N; Pashaev, E M; Zaitsev, A A; Sutyurin, A G; Mokerov, V G
CS= Shubnikov Institute of Crystallography, Russian Academy of Sciences,
Leninskii prosp. 59, 117333, Moscow, Russia

JN=,SO= Proceedings of SPIE: Micro- and Nanoelectronics 2003 (ICMNE-2003), v SPIE
Volume 5401, p 573-578
PY= PUBLICATION DATE: 2004
PU= PUBLISHER: SPIE - The International Society for Optical Engineering, 1000
20th Street, P.O. Box 10, Bellingham, WA, 98225
CP= COUNTRY OF PUBLICATION: USA
PUBLISHER URL: <http://www.spie.org>
PUBLISHER EMAIL: spie@spie.org

CT=,CL=,CY= CONFERENCE:
Micro - and Nanoelectronics 2003 (ICMNE - 2003) , Zvenigorod,
Russia, 6-10 Oct. 2003
DT= DOCUMENT TYPE: Conference Paper; Journal Article
RT= RECORD TYPE: Abstract
LA= LANGUAGE: English
BN= ISBN: 0-8194-5324-2
RN= REPORT NO: SPIE Volume 5401
NOTES: Spectra
NO. OF REFS.: 17
DOI: 10.1117/12.562700
FS= FILE SEGMENT: Electronics & Communications Abstracts

/AB ABSTRACT:
GaAs-based heterostructures containing the layers with InAs quantum dots
were studied by high-resolution X-ray diffraction and reflectivity
measurements. Their structural parameters were derived by theoretical
analysis of the measured data. The parameters derived from the diffraction
and reflectivity measurements agree well with one another, which indicates
that structural data yielded by the combination of such measurements can
well be deemed plausible.

/DE DESCRIPTORS: Reflectivity; Heterostructures; Quantum dots; X ray analysis;
X-ray diffraction; Gallium arsenides; Indium arsenides; High resolution;
Microstructure; Nanoelectronics; Semiconductors; X ray reflection
Diagnostic systems; Diffraction
SC=,SH,SH= SUBJ CATG: 20, Components and Materials (General)

SEARCH OPTIONS

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S REFLECTIVITY(W)MEASUREMENTS
/AB	AB	Abstract	Word	S THEORETICAL(W)ANALYSIS/AB
/DE	DE	Descriptor ¹	Word & Phrase	S QUANTUM(W)DOT?/DE
/ID	ID	Identifier	Word & Phrase	S DIAGNOSTIC SYSTEM?/DE
/SH	SH	Subject Category ²	Word	S EXTRUSION/ID
/TI	TI	Title	Word	S HEAT TRANSFER/ID
			Word	S COMPONENTS(1W)MATERIALS/SH
			Word	S X(W)RAY(W)DIAGNOSTICS/TI

¹ Also /DF.

² Searchable in the Basic Index and in the Additional Indexes.

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	CSA Accession Number	Phrase	S AA=200504-20-05097
AU=	AU	Author	Phrase	S AU=YAKUNIN, S?
—	AZ	DIALOG Accession Number		
BN=	BN	International Standard Book Number (ISBN)	Phrase	S BN=0-8194-5324-2
				S BN=0819453242
CD=	CD	Conference Date	Phrase	S CD=20031006
CL=	CL	Conference Location	Word	S CL=ZVENIGOROD
CP=	CP	Country of Publication	Phrase	S CP=USA
				S CP=NEW ZEALAND
CS=	CS	Corporate Source	Word & Phrase	S CS=(SHUBNIKOV(S)INSTITUTE)
				S CS=SHUBNIKOV INSTITUTE?
CT=	CT	Conference Title	Word	S CT=(MICRO(1W)NANOELECTRONICS)
CY=	CY	Conference Year	Phrase	S CY=2003
DT=	DT	Document Type	Phrase	S DT=JOURNAL ARTICLE
FS=	FS	File Segment	Phrase	S FS="ELECTRONICS & COMMUNICATIONS"?
—	II	Digital Object Identifier		
JN=	JN	Journal Name	Phrase	S JN=PROCEEDINGS OF SPIE?
LA=	LA	Language	Phrase	S LA=GERMAN
MC=	MC	Materials Classification	Phrase	S MC=ALUMINUM BASE ALLOY?
ML=	ML	Materials	Phrase	S ML=AL-4CU
NO=	NO	Document Number	Word & Phrase	S NO=F3615
				S NO=F3615-91-C-1788
—	NR	Number of References		
—	NT	Note		
PD=	PD	Publication Date	Phrase	S PD=20040000
PU=	PU	Publisher	Word	S PU=SPIE?
PY=	PY	Publication Year	Phrase	S PY=2004
RN=	RN	Report Number	Word & Phrase	S RN=5401
				S RN=SPIE VOLUME 5401
RT=	RT	Record Type	Phrase	S RT=ABSTRACT
SC=	SC	Subject Category	Phrase	S SC=20
SH=	SH	Subject Category Text ²	Phrase	S SH="COMPONENTS AND MATERIALS"?
SN=	SN	International Standard Serial Number (ISSN)	Phrase	S SN=0883-2900
SO=	SO	Source Information	Word	S SO=(SPIE(S)PROCEEDINGS)
UD=	—	Update	Phrase	S UD=9999

SPECIAL FEATURES

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP DUP, HELP CURRENT online.

LIMIT	/ABS -- Record has an Abstract /NOABS -- Record is a Citation Only Record /YYYY -- Publication Year	S S3/ABS S S3/NOABS S S2/2004
SORT	AA, AU, CS, JN, PY, TI	SORT S3/ALL/PY/D SORT S1/ALL/TI
RANK	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked.	RANK DE RANK AU S4
RD, ID	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
CURRENT	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 57 CURRENT2

PREDEFINED FORMAT OPTIONS

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Full Record except Abstract
3	Medium	Bibliographic Citation
4	--	Full Record with Tagged Fields
5	--	Full Record
6	Short	Title and Publication Year
7	Long	Bibliographic Citation and Abstract
8	Free	Title, Indexing, and Publication Year
9	Full	Full Record

OTHER OUTPUT OPTIONS

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

USER DEFINED FORMATS	Display codes listed in the Search Options tables can be used to customize output.	TYPE S3/AU,TI/1-5 PRINT S2/TI,AB/ALL
TAG	Output can be displayed with tags identifying each display field.	TYPE S2/5/1-5 TAG PRINT S3/9/ALL TAG
DIRECT RECORD ACCESS	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 0000299546/5 DISPLAY 0000297006/AU,TI PRINT 0000291061/9

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See HELP FIELDS 57 for searchable fields; HELP FORMAT 57 for output formats; HELP LIMIT 57 for limits; HELP RATES 57 for cost information; HELP SORT 57 for sorts.