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TiO$_2$-supported catalysts for the steam reforming of ethanol

Rossetti, Ilenia 🗶; Lasso, Josè 🗶; Finocchio, Elisabetta 🗶; Ramis, Gianguido 🗶; Nichele, Valentina; et al. **Applied Catalysis A: General** 477 (Jan 1, 2014): 42-53.

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AB

⊟ **Abstract (summary)** Translate

TiO$_2$ was used as support for Ni, Co and Cu to prepare catalysts for the steam reforming of ethanol, due to its known tendency to form strong metal-support interaction (SMSI) with some metals. The samples were prepared following different procedures, tuning the reducibility of the active phase and its interaction with the support. The latter parameter showed pivotal to impart suitable catalytic activity and most of all stability towards coking. Indeed, the insurgence of SMSI may allow to keep the active phase dispersed, improving activity and inhibiting the formation of carbon filaments over the active phase. The comparison between different active phases (Ni, Co, Cu, 10 wt%) confirmed Ni as very active, although it has a higher tendency to form carbon filaments. This drawback may be at least partially controlled by favouring high Ni dispersion through the formation of a mixed oxide with the support.

⊟ **Indexing (details)** 🗐 Cite

SU, SUBT	
Subject	13463-67-7 -- CATALYST SUPPORT;
	13463-67-7 -- GROUP IVB;
	13463-67-7 -- GROUP VIA;
	13463-67-7 -- IDE;
	13463-67-7 -- OXYGEN;
	TRANSMISSION ELECTRON MICROSCOPY;
	WASTE DEPOSIT;
	WASTE MATERIAL;
	X RAY DIFFRACTION ANALYSIS
SUBST Substance	13463-67-7
	64-17-5
IF Identifier (keyword)	Cobalt catalyst, Copper catalyst, Ethanol steam reforming, Metal-support interaction, Nickel catalyst, Titania
TI Title	TiO$_2$-supported catalysts for the steam reforming of ethanol
AU **AUFN,AULN** Author	Rossetti, Ilenia [1]; Lasso, Josè [1]; Finocchio, Elisabetta [2]; Ramis, Gianguido [2]; Nichele, Valentina [3]; Signoretto, Michela [3]; Di Michele, Alessandro [4]

AF

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LA	Language	English
SL	Language of abstract	English
DTYPE	Document type	Article
PUB	Publication title	Applied Catalysis A: General
VO	Volume	477
PG	Pagination	42-53
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PSTYPE	Publication type	Journal
PB	Publisher	Elsevier
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AN	Accession number	L2014010187
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FAV	Copyright	Copyright 2014 Elsevier B.V., All rights reserved.
UD	First available	2014-05-05
	Updates	2014-05-05
	Database	Ei EnCompassLIT (1999 - current)

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Field Name	Field Code	Example	Description and Notes
Abstract	AB	ab("strong metal support interaction")	Use adjacency and/or Boolean operators to narrow search results.
Abstract present	ABANY	ru-zn AND abany(yes)	Add: *AND ABANY(YES)* to a query to limit retrieval to records with abstracts.
Accession number	AN	an(L2014010187)	A unique document identification number assigned by the information provider.
All fields	ALL	all("carbon filaments" N/3 "active phase")	Searches all fields in bibliographic files. Use adjacency and/or Boolean operators to narrow search results.
All fields + text	--	"carbon filaments" N/3 "active phase"	Same as ALL field code: searches all fields in bibliographic files.
Author[1] Author First Name Author Last Name	AU AUFN AULN	au("ramis gianguido") aufn(gianguido) auln(ramis)	Includes all authors. Also searchable via the Look Up Citation tool.
First author	FAU	fau(rosette, ilenia)	First name listed in Author field. It is included in Author browse, but its position cannot be specified in the Author browse.

Field Name	Field Code	Example	Description and Notes
Author affiliation	AF	af("chimica universita" PRE/2 milano)	Displays in Author field. Not available in all documents. Includes as much data as is available in the original document, such as department, organization, address, city, state, country, author email, etc.
CAS® Registry Number	RN	rn(64-17-5)	Also searchable using the Substance field code (SUBST).
CODEN	CODEN	coden(ACAGE4)	
Conference information	CF	cf(2012 aiche)	Displays as part of Conference title field. May contain conference name, location, year, etc.
Conference event start date	ESDT CDT	esdt(20121028)	
Conference event end date	EVDT	evdt(20121102)	
Conference title	CFTI	cfti("2012 aiche annual meeting")	
DOI	DOI	doi(10.1016/j.apcata.2014.03.004)	Digital Object Identifier. Search the portion of the DOI that comes after http://dx.doi.org/.
Date created	DCRE	dcre(2014-04-30) dcre(>2012)	The date on which the information provider created the record.
Document title	TI	ti("steam reforming of ethanol")	Includes title, alternate title, subtitle and original language of document title, if available. Field code TI also searches the Alternate title.
Title only	TIO	tio("aquatic and terrestrial organisms")	Searches only the Title, not alternate title or subtitle.
Alternate title	OTI	oti("Toxicite aiguee comparee du phenol")	Includes Alternate title, Subtitle, and Original-language title if available.
Document feature	DF	df(table or graph)	Refers to features such as illustrations included in the original document. These are not included in the online record.
Document status	DSTAT	dstat(new)	Most documents are 'new'. Some may be revised.
Document type	DTYPE	dtype(article)	
First available	FAV	fav(20140505)	Indicates the first time a document was loaded on PQD. It will not change however many times the record is subsequently reloaded, as long as the accession number does not change.
From database[2]	FDB	"raman spectroscopy" AND fdb(eiencompasslit) "raman spectroscopy" AND fdb(1008589)	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.
Identifier	IF	if("metal support interaction")	
ISBN	ISBN	isbn(097876403X)	
ISSN	ISSN	issn(0926860X)	
Issue	ISS	iss(1)	Also searchable via the Look Up Citation tool.
Journal name	JN	jn("applied catalysis A")	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)	

Field Name	Field Code	Example	Description and Notes
Language of abstract	SL	sl(english)	
Pagination	PG	pg(42-53)	
Publication date	PD	pd(20140101) pd(>201212) pd(20130101-20131231)	Date range searching is supported. Also searchable via the Look Up Citation tool.
Publication title[1]	PUB	pub("applied catalysis A")	Title of publication where document originally appeared. Also searchable via the Look Up Citation tool.
Publication type	PSTYPE	pstype(journal)	
Publication year	YR	yr(2013) yr(>2008)	Single year or a range of years may be searched.
Publisher	PB	pb(elsevier)	
Publisher city, Place of publication	PBLOC	pbloc(cambridge)	
Publisher country, Country of publication[1]	CP	cp("united kingdom")	
Source information	SRC	src("applied catalysis A"and 477)	Includes Publication title, Volume, Issue, ISSN, Publication date, and Pagination. Also searchable via the Look Up Citation tool.
Start page	PAGE	page(42)	Also searchable on the Look Up Citation page.
Subject[1]	SU	su("carbon deposit -- film") su("13463-67-7 -- CATALYST SUPPORT") su(13463-67-7 LNK "CATALYST SUPPORT")	Some subjects are simple words or phrases. Others are a combination of heading, usually a CAS Registry number, plus a qualifier. Search the latter using -- or LNK to combine the two parts. Some subjects have a 'major' flag – search these with MJSUB, see next entry
Main subject	SUBT	subt("waste deposit"	SUBT searches terms from the Subject display field only. Terms selected from the Subject filter use the SUBT field code.
Major subject	MJSUB	mjsub("materials testing")	
Substance	SUBST	subst(13463-67-6)	Also searchable using the CAS Registry number field (RN)
Updates	UD	ud(20140505)	The date(s) the record was loaded as a result of an update provided by the supplier.
Volume	VO	vo(477)	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.

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

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Abstract included

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When results of a search are presented, the results display is accompanied by a list of "Narrow results by" options shown on the right-hand panel. Click on any of these options and you will see a ranked list showing the most frequently occurring terms in your results. Click on the term to apply it to ("narrow") your search results. Narrow results by limiters in Ei EnCompassLIT include:

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Citation / Abstract	Complete record	✓[1]	✓
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