Elettra Sincrotrone Trieste

The VUO publication database at Elettra-Sincrotrone Trieste

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Motivations

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Why do research infrastructures need a publication database?

- Reporting to management
- Reporting to funding agencies
- Reporting to agencies evaluating the quality of research
- Providing useful feedback to the Proposal Review Panels

Desirable characteristics of the database

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- Data input must be user friendly and error free
- Multiple data entries are requested
  - Authors' names and countries of origin
  - Publication data must be reliable!
  - Associated proposal number; funding info
  - Associated instrumentation (beamline / laboratory name)
  - Access point
- The database must be versatile and upgradable
  - Manage different publication types (Articles, Proceedings, Theses, Books, ...)

Data entry and validation flow

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1. Submission

Users, BL or lab staff

input requires the DOI and basic info on the proposal

notification

2. Validation

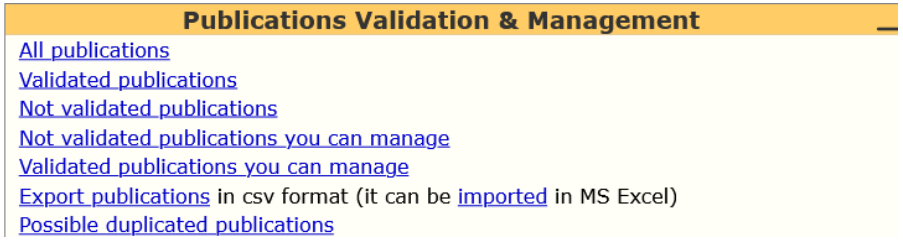
BL or lab coordinator

input data need to be checked carefully!

publication data is obtained from Scopus / ISI-WoS

Staff involvement ensures quicker submission and good database maintenance

validation is most reliably performed by the BLC rather than a generic supervisor



Submission suggestions at log-in

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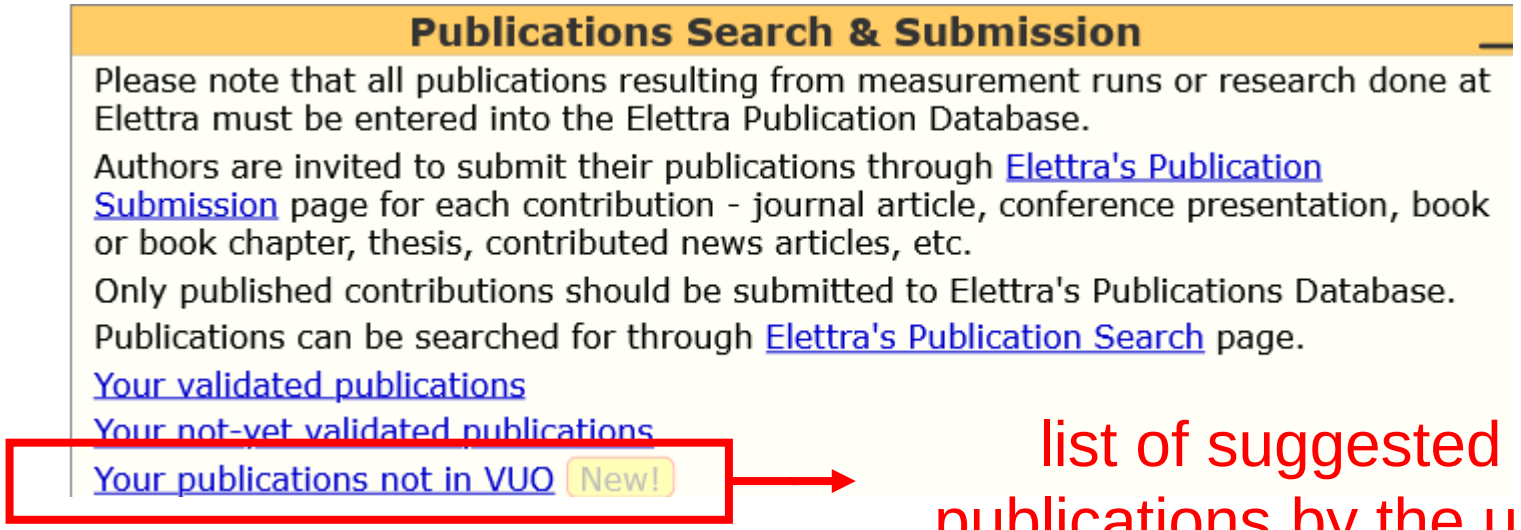
! Problem of the «missing» entries !

Finding the publications that are not in the database



DOI submission

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Publications submission

Please note that publications appeared from year 2000 onwards only are accepted.
Your new submissions may not appear for a few days due to duplication screening.

Choose the publication type you want to submit:

- (●) Journal Article (**simplified submission using DOI**)
- ( ) Proceedings (**simplified submission using DOI**)
- ( ) Conference Presentations
- ( ) Book or Book Chapter
- ( ) Theses
- ( ) Contributed News Articles, Book Reviews
- ( ) Internal Elettra Staff Reports
- ( ) Elettra Highlights
- ( ) Patent

Please just indicate the publication's DOI and VUO will get its data from the resources online, if any.

(Should the data retrieval fail, you will be shown a simplified publication submission minimal-form but please consider coming back at a later time when the publication data will be available online: VUO will considerably reduce your data entry.)

DOI: 10.1038/s41598-024-51896-w

ERROR. DOI already present in VUO database

[Add publication] [Cancel]

The VUO auto-check for duplications

DOI submission

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Journal Article Submission Form

DOI: 10.1038/s41598-024-51896-w

Title
Min 10 characters
Max 1024 characters

Publication data is imported from Scopus, if available

Research Area:*

At least one author is:
- ☐ part of Elettra's Staff

Has the work been done at Elettra?*

Has the work been done through CERIC?

This publication is associated to:
- ☐ A Review Work
- ☐ In-house Research
- ☐ Collaboration
- ☐ Industrial Laison Office
- ☐ Proposals Submitted to the Review Panel

Associated Proposals:

Associated Instrumentations:

Associated Laboratories:

Associated **non** Elettra or CERIC-ERIC laboratory:

Financial Support Information

The work carried on at Elettra or CERIC/ERIC was supported:
- ☐ by ICTP-Elettra Users Programme (for scientists from developing countries)
- ☐ under a European Union Transnational Access Contract

Checking the data before validation

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Journal Article Submission Form

DOI: 10.1038/s41598-024-51896-w

Title
Min 10 characters
Max 1024 characters

Transfer of magnetic anisotropy in epitaxial Co/NiO/Fe trilayers

Research Area:* Condensed matter - Electronic and Magnetic Structure

Authors:

Nº	Lastname	Name	Initials	Country	VUO user	
1	Szpytma	Marcin	M.	Poland	✓ [=][†]	[×]
2	Ślęzak	Michal	M.	Poland	✓ [=][†]	[×]
3	Janus	Weronika	W.	Poland	✓ [=][†]	[×]
4	Nayyef	Hussein	H.	Poland	[=][†]	[×]
5	Ślęzak	Tomasz	T.	Poland	✓ [=][†]	[×]
6	Mandziak	Anna	A.	Poland	✓ [=][†]	[×]
7	Zając	Marcin	M.	Poland	✓ [=][†]	[×]
8	Wilgocka-Ślęzak	Dorota	D.	Poland	✓ [=][†]	[×]
9	Menteş	Tevfik Onur	T.O.	Italy	✓ [=][†]	[×]
10	Jugovac	Matteo	M.	Italy	✓ [=][†]	[×]
11	Locatelli	Andrea	A.	Italy	✓ [=][†]	[×]
12	Kozioł-Rachwał	Anna	A.	Poland	✓ [=][†]	[×]

[Add Author]
[Rerwork Authors]

Even if the authors' list is imported from Scopus, errors are likely to occur

Data are cross-checked with the VUO database and corrected manually

Checking the data before validation

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At least one author is: ☑ part of Elettra's Staff

Has the work been done at Elettra?* Yes, only in part

Has the work been done through CERIC?

This publication is associated to:
- ☐ A Review Work
- ☐ In-house Research
- ☐ Collaboration
- ☐ Industrial Laison Office
- ☑ Proposals Submitted to the Review Panel

Associated Proposals: 1 20215696 [search] [×]
[Add Proposal]

Associated Instrumentations: 1 NANOSPECTROSCOPY (Nanospectroscopy) [×]
[Add Instrumentation]

Associated Laboratories:
[Add laboratory]

Associated **non** Elettra or CERIC-ERIC laboratory:

Financial Support Information	
The work carried on at Elettra or CERIC/ERIC was supported:	☐ by ICTP-Elettra Users Programme (for scientists from developing countries) ☐ under a European Union Transnational Access Contract

Proposal no. and instrumentation info are checked by the BL / Lab coordinator

Checking the data before validation

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Publication Details

Abstract	The magnetic properties of Co(10 Å)/NiO(40 Å)/Fe trilayer epitaxially grown on W(110) substrate were investigated with use of x-ray magnetic linear dichroism (XMLD) and x-ray magnetic circular dichroism (XMCD). We showed that magnetic anisotropy of Fe film that can be controlled by a thickness-driven spin reorientation transition is transferred via interfacial exchange coupling not only to NiO layer but further to ferromagnetic Co overlayer as well. Similarly, a temperature driven spin reorientation of Fe sublayer induces a reorientation of NiO spin orientation and simultaneous switching of the Co magnetization direction. Finally, by element specific XMCD and XMLD magnetic hysteresis loop measurements we proved that external magnetic field driven reorientation of Fe and Co magnetizations as well as NiO Néel vector are strictly correlated and magnetic anisotropy fields of Fe and Co sublayers are identical despite the different crystal structures.
Review Periodical Name	Scientific Reports [Search]
Volume	14
Issue	1
From Page:	
To Page:	
Article Number:	1680
Month (Qtr, Season):	December
Year	2024
Serial number:	20452322
Publication URL *(if available)*	
Open Access	Y
Keywords:	[Add Keyword]
Further Information	

Integration with the Elettra website

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Home | About us | User Area | Lightsources & Laboratories | Science | Technology | Industry | Intranet

Nanospectroscopy | Contacts | Research | Beamline Description | Specifications | Info for Users | Data Analysis | Manuals | Safety

Nanospectroscopy Publications

2024 , 2023 , 2022 , 2021 , 2020 , 2019 , 2018 , 2017 , 2016 , 2015 , 2014 , 2013 , 2012 , 2011 , 2010 , 2009 , 2008 , 2007 , 2006 , 2005 , 2004 , 2003 , 2002 , All Pages

Page 1 of 23

All investigations hereby listed were conducted, in part or entirely, using the Elmitec SPELEEM III microscope operated by Elettra at the Nanospectroscopy beamline first branch. Several studies were performed using the SOLEIL-CNRS microscope (Elmitec LEEM V), which was installed on the beamline second branch during the years 2005-2009. A complete list is available here.

2024

1. **Tailoring Magnetic Anisotropy in Ultrathin Cobalt by Surface Carbon Chemistry**
   Brondin C.A., Ghosh S., Debnath S., Genuzio F., Genoni P., Jugovac M., Bonetti S., Binggeli N., Stojić N., Locatelli A., Menteş T.O.
   Advanced Electronic Materials (2024)
   doi: 10.1002/aelm.202300579 (Journal Article)

2. **Transfer of magnetic anisotropy in epitaxial Co/NiO/Fe trilayers**
   Szpytma M., Ślęzak M., Janus W., Nayyef H., Ślęzak T., Mandziak A., Zając M., Wilgocka-Ślęzak D., Menteş T.O., Jugovac M., Locatelli A., Kozioł-Rachwał A.
   Scientific Reports, Vol. 14 - 1, 1680 (2024)
   doi: 10.1038/s41598-024-51896-w (Journal Article)

Prev | Next >>

A plug-in is available for the automated update of the publication list shown in the beamline / lab website