



IMPULSE
IMPULSE



eli

User Access Workshop

User Database

&

Statistics

Venicio Duic – Elettra-Sincrotrone



Elettra's User Database

Elettra's Users: ~ 15,000 people
They must have a VUO account

- **Authentication**

- Local - Elettra SSO (LDAP) allows access to non-VUO services (not all) - e.g. experimental resources
- Federated: Umbrella (federated SSO - Shibboleth) + local account mapping

- **Authorisation**

- Users are authorised through roles (PoLP)
 - Base role: "Normal User" – can manage their account, manage and submit proposals



User Data

Data-collection Escalation: strictly necessary data only at each step

- 1) Subscription*: minimum personal data (name, lastname, birth date, own institute, email address)
- 2) Access Request:
 - a) Non financed: data necessary for travel/lodging support if asked for (phone number, ID)
 - b) Financed: data necessary for reimbursements (bank/tax data)
- 3) Publication: ORCID/scopus-ID



User Data

Account suppression: personally identifiable information get anonymized (pseudonymization).



Elettra's User Database



Elettra Sincrotrone Trieste

User-data

User Office's View

Personal data

Tax data

IDs

Bank data

Roles

VUO - Virtual Unified Office

VUO - Show user

Logged as: [redacted] from superuser (66743 Sudo) - [Logout] [Create](#)

[Home](#) | [Users](#)

Show user

User id:
Title:
Lastname:
Name:
E-mail:
Secondary e-mail:
LDAP.elettra.eu account:
WWW home page:
Included in mailing lists:
Institutes:
ORCID:
Address:
Country:
City:
Zip:
Italian fiscal code:

Entity	Number	Location	Type
	0984-496157		Work
	333-3186785		Mobile
	0984494401		Fax
	0984-494401		Fax

Document type	Nationality	Number	Issued at	Issue date	Expiration date	Validated
Identity card	ITALY	[redacted]	[redacted]	[redacted]	[redacted]	Yes
Identity card	ITALY	[redacted]	[redacted]	[redacted]	[redacted]	No

Bank	Bank address	Account holder	Iban code	Swift code
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

[Back] [Edit] [Create LDAP.elettra.eu Account] [Permissions]



VUO: highly integrated ecosystem \Rightarrow statistics about **anything**

- Standard reports
 - Single-purpose reports (charts + source-data* or source-data* only): single specific datum
 - Multi-purpose reports (source-data*): multi-dimensional data
- Ad hoc reports (*complex or special data extraction*)
 - Provided by IT – typically source-data*
- Embedded reports
 - Automatically available for certain VUO applications
 - Provided data: between single-purpose and multi-purpose reports

[*] Source-data is provided through CSV/XLS file



Standard Reports Single-purpose Reports

- Proposal-evaluation Committee Performances
- Publications Statistics

Beamlines statistics

- [Committee trend](#)
- [Committee trend percentage](#)
- Beamlines trends [absolute](#) ([exclude CERIC](#))
- Beamlines trends [percentage](#) ([exclude CERIC](#))
- [Worse successful score](#)
- [Worse successful score per beamline](#)
- [Proposal trend per beamline \(CERIC\)](#)
- [Proposal distribution beamline vs committee](#)
- [Proposal distribution committee vs beamline](#)
- World [distribution](#) ([exclude CERIC](#))

- Publications [total](#) ([exclude CERIC](#))
- Publications [average SJR](#) ([exclude CERIC](#))
- Publications [sum SJR](#) ([exclude CERIC](#))
- [Publications vs. score](#)

Publications: Web of Science Impact-factor Trends

- All Beamlines ([Elettra](#), [CERIC](#), [Elettra+CERIC](#))
- [All Labs](#)
- Beamlines & Labs details ([Elettra](#), [CERIC](#), [Elettra+CERIC](#))

Publications: Number Trends

- All Beamlines ([Elettra](#), [CERIC](#), [Elettra+CERIC](#))
- [All Labs](#)
- Beamlines & Labs details ([Elettra](#), [CERIC](#), [Elettra+CERIC](#))

Publications: Panel-reviewed vs In-house IFs

- [All Beamlines](#)
- [All Labs](#)
- [Beamlines Details](#)

Time to Publication

- [All Beamlines](#)
- [Beamlines Details](#)
- [Shifts Usage per beamline](#)



Example

Evaluation-Panels Trend

Years/Calls
Timeframe
Selection

Source-Data
Export

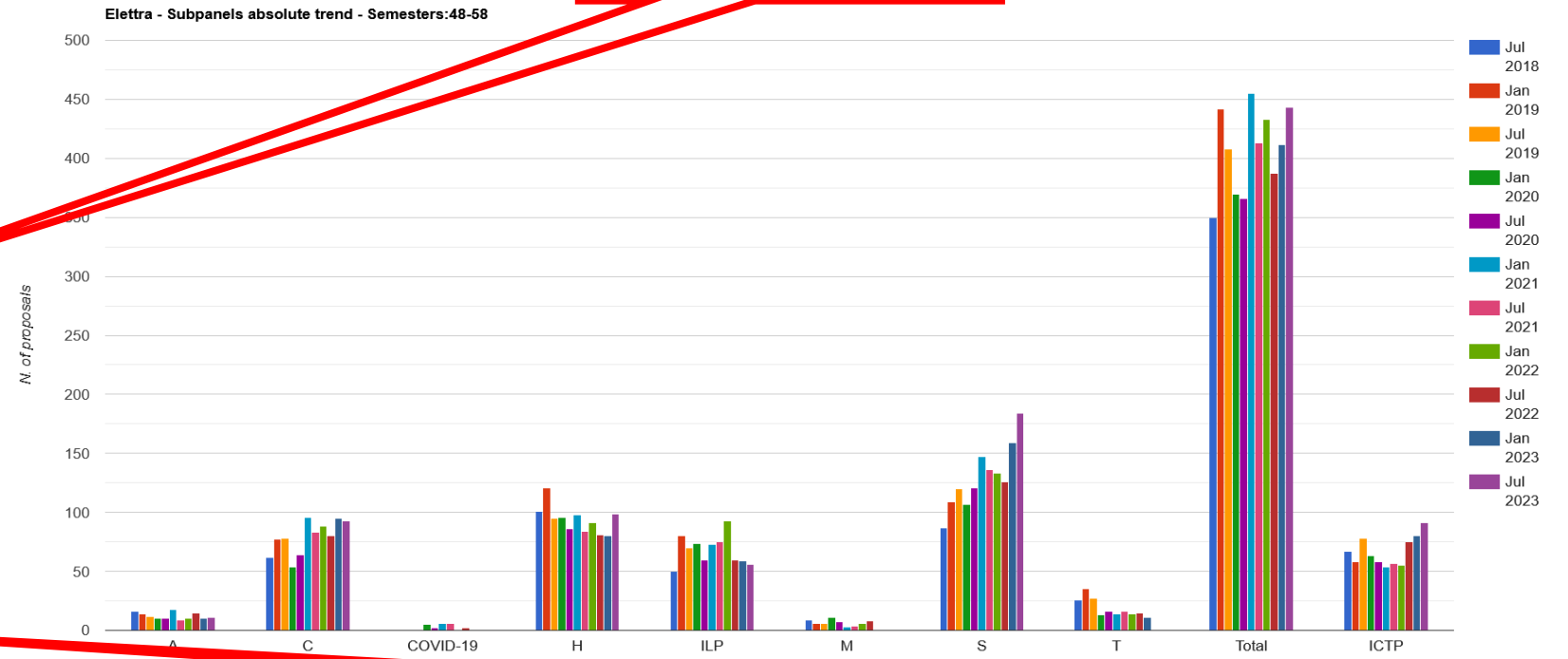


Logged as: **Venicio DUIC** (66743) [Sudo] - [Logout]

[Create Help](#)

[Home](#) | [Committee trend](#) | [Committee trend percentage](#) | [Beamlines trends absolute \(exclude CERIC\)](#) | [Beamlines trends percentage \(exclude CERIC\)](#) | [Worse successful score](#) | [Worse successful score per beamline](#) | [Proposal trend per beamline \(CERIC\)](#) | [Proposal distribution beamline vs committee](#) | [Proposal distribution committee vs beamline](#) | [World distribution \(exclude CERIC\)](#) | [Publications total \(exclude CERIC\)](#) | [Publications average SJR \(exclude CERIC\)](#) | [Publications sum SJR \(exclude CERIC\)](#) | [Publications vs. score](#) | [All Labs](#) | [All Labs](#) | [All Beamlines](#) | [All Labs](#) | [Beamlines Details](#) | [All Beamlines](#) | [Beamlines Details](#) | [All Beamlines](#) | [Beamlines Details](#) | [Shifts Usage per beamline](#) | [Publications tagged as "Review-panel" with no any proposals](#) | [Without a Web of Science IF](#) | [With missing ISSN](#)

[\[Full screen\]](#)
 From: << Jul 2018 (Sem 48) >> To: <> Jul 2023 (Sem 58) >>>
 Semesters: from 48 (Jul 2018) to 58 (Jul 2023) [go]



[\[Export CSV\]](#)

Notes

- Proposals with ICTP-support are shown separately but they are actually **taken into account** in the total as well.
- Monthly proposals are excluded, as they do not go through sub-panels evaluation.



Example Proposal Worst Successful Score (Beamlines comparison)

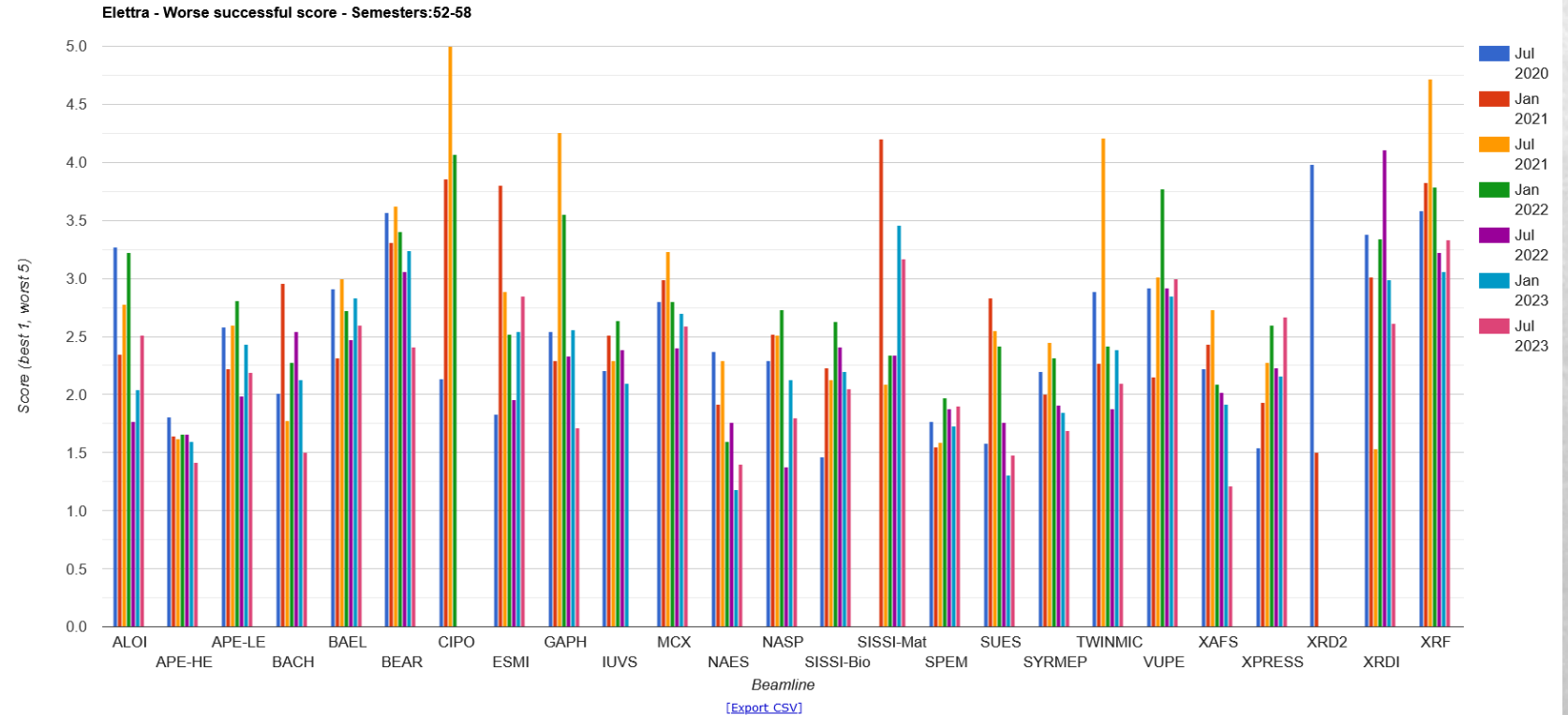


Logged as: [Venicio DUIC](#) (66743) [[Sudo](#)] - [[Logout](#)]

[Create Help](#)

[Home](#) | [Committee trend](#) | [Committee trend percentage](#) | Beamlines trends [absolute \(exclude CERIC\)](#) | Beamlines trends [percentage \(exclude CERIC\)](#) | [Worse successful score](#) | [Worse successful score per beamline](#) | [Proposal trend per beamline \(CERIC\)](#) | [Proposal distribution beamline vs committee](#) | [Proposal distribution committee vs beamline](#) | World distribution [\(exclude CERIC\)](#) | Publications total [\(exclude CERIC\)](#) | Publications [average SJR \(exclude CERIC\)](#) | Publications [sum SJR \(exclude CERIC\)](#) | [Publications vs. score](#) | [All Labs](#) | [All Labs](#) | [All Beamlines](#) | [All Labs](#) | [Beamlines Details](#) | [All Beamlines](#) | [Beamlines Details](#) | [All Beamlines](#) | [Beamlines Details](#) | [Shifts Usage per beamline](#) | [Publications tagged as "Review-panel" with no any proposals](#) | [Without a Web of Science IF](#) | [With missing ISSN](#)

[Full screen]
From: << Jul 2020 (Sem 52) > To: < Jul 2023 (Sem 58) >>
Semesters: from to [[go](#)]



[Export CSV]



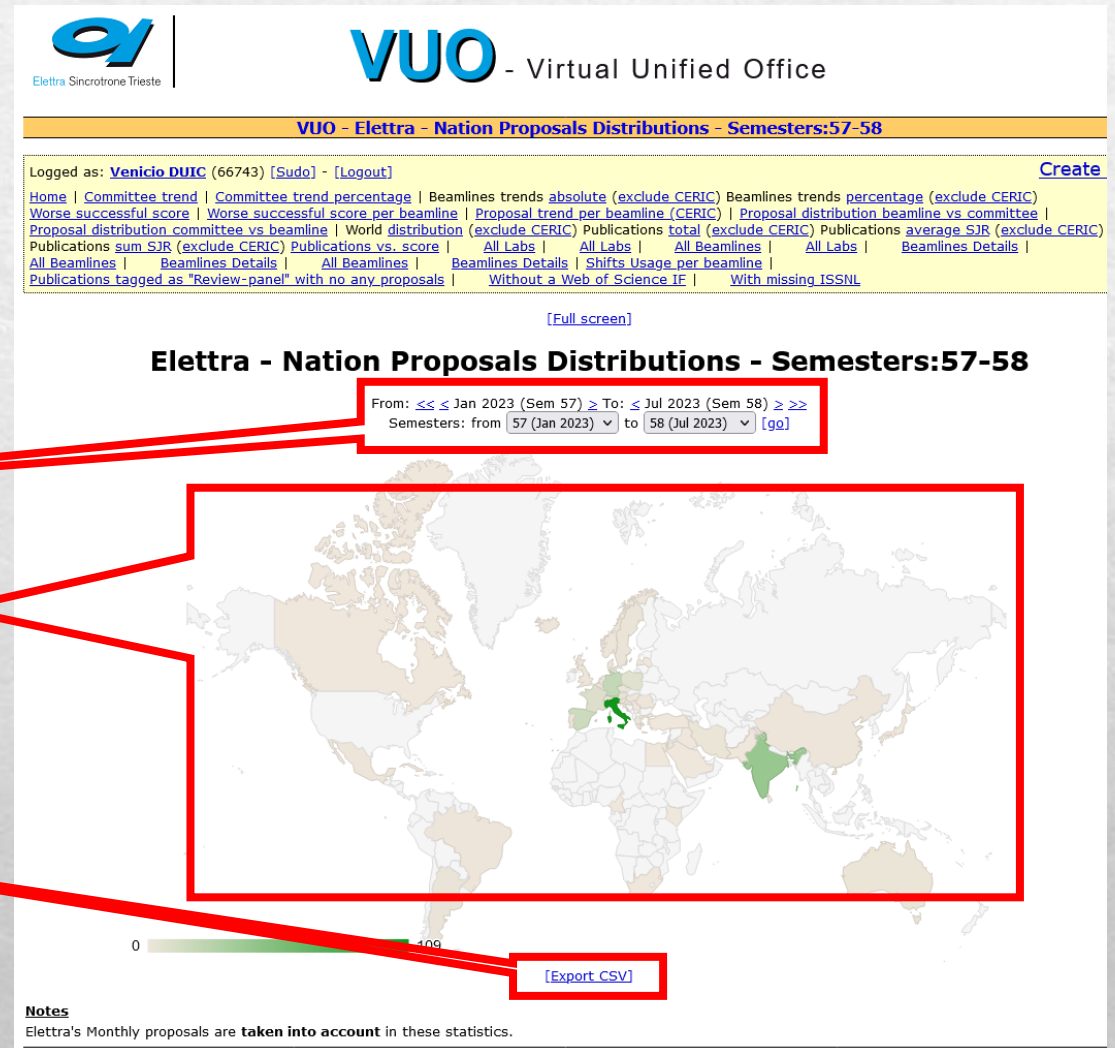
Example

Proposal Submission Proposer's Geographic Provenance

Year/Call Selection

(Mouse) Responsive Chart

Source-data export





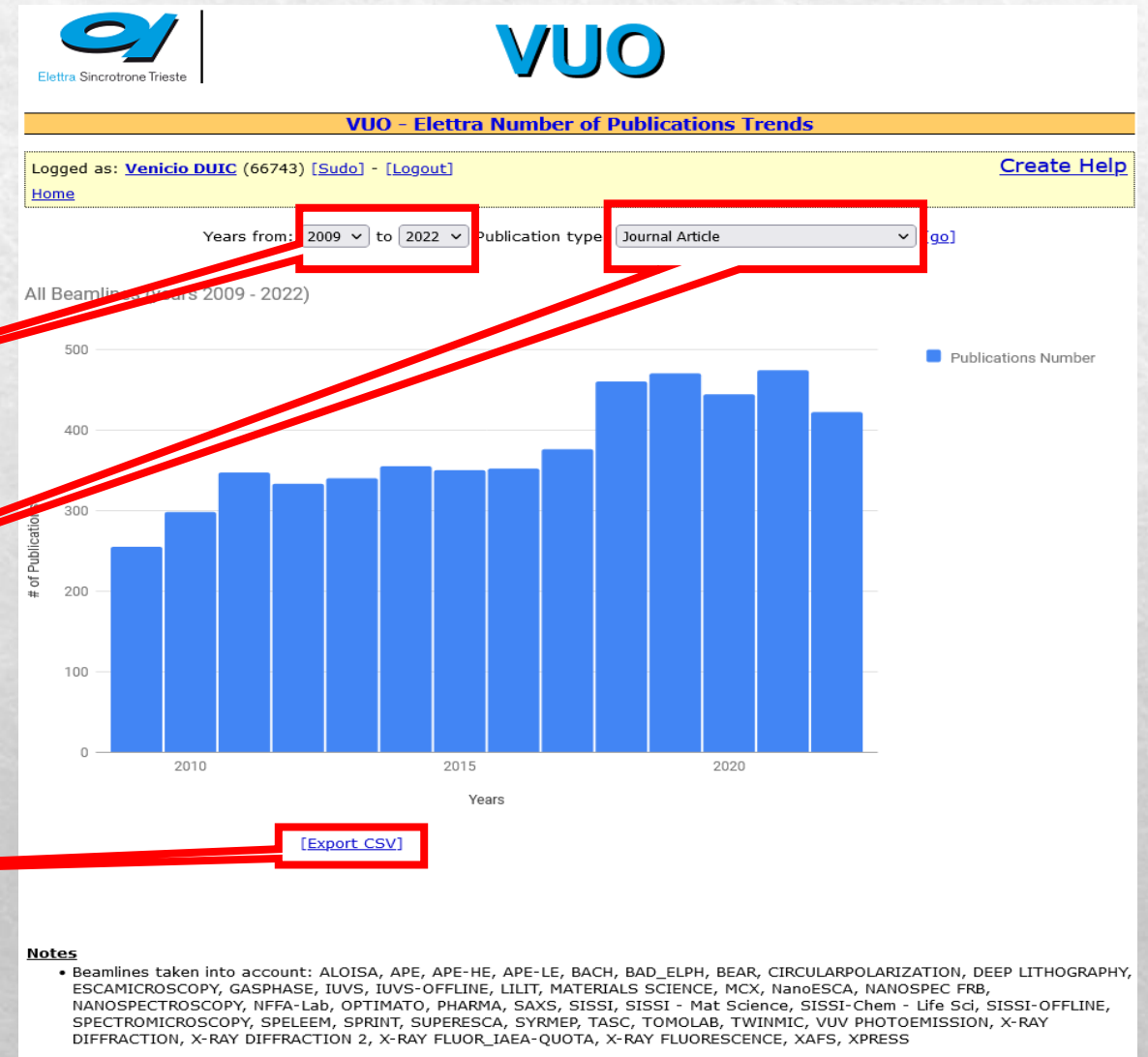
Example

Publications Trend

Year timeframe

Publication-type

Source-data Export





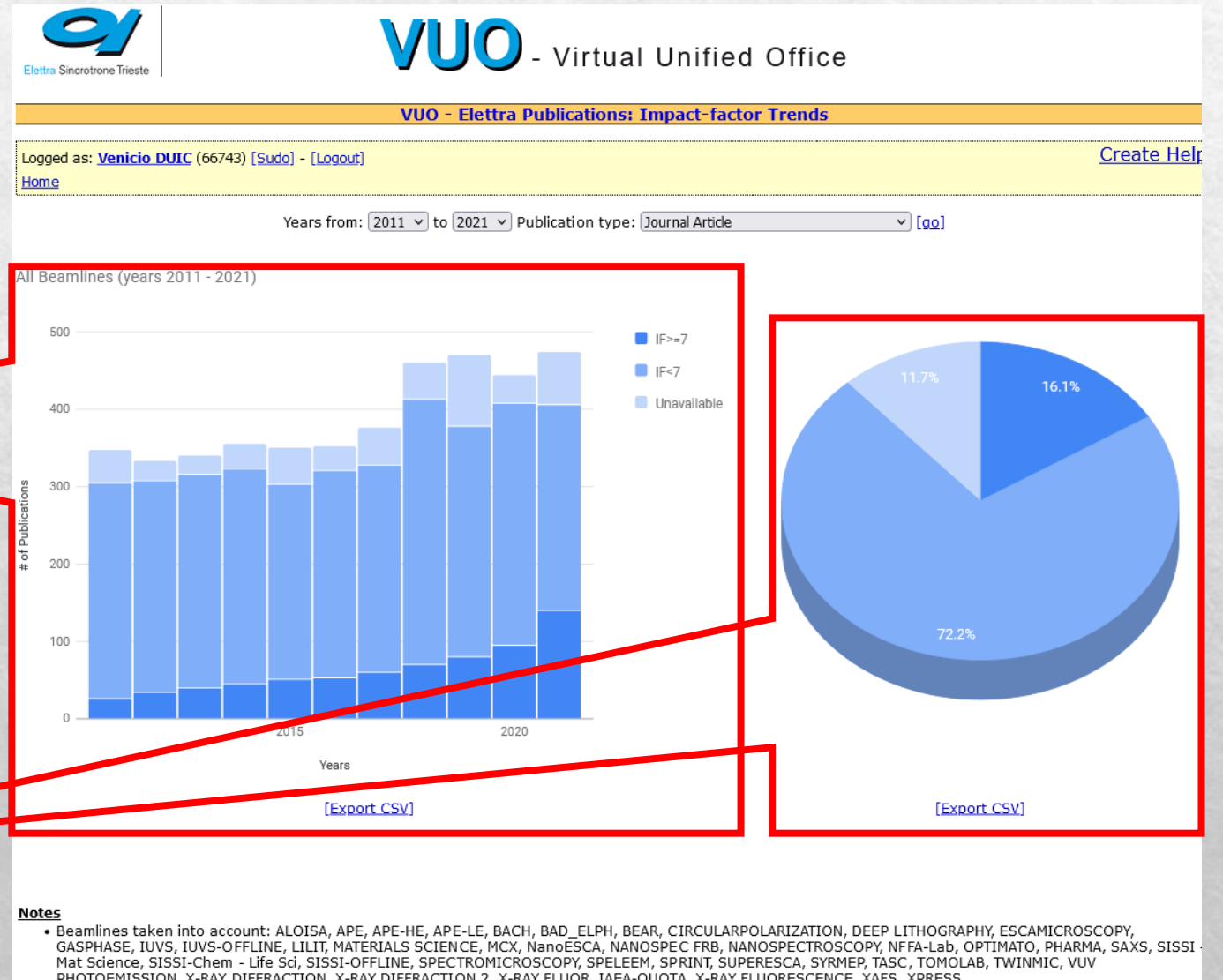
Examples

Publications

(WoS) Impact-Factor

Distribution

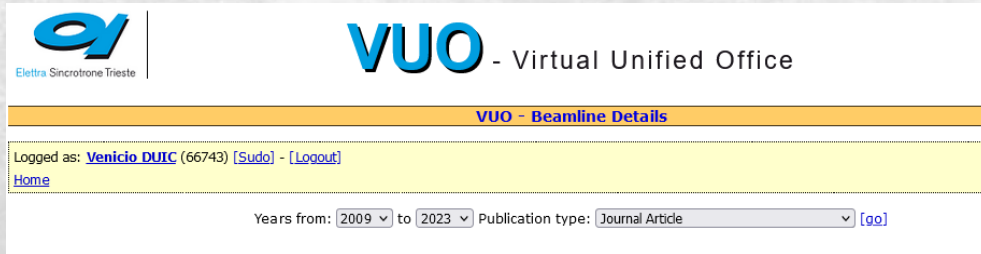
Aggregate Data
in Interval





Example

Time to Publication



VUO - Virtual Unified Office

VUO - Beamline Details

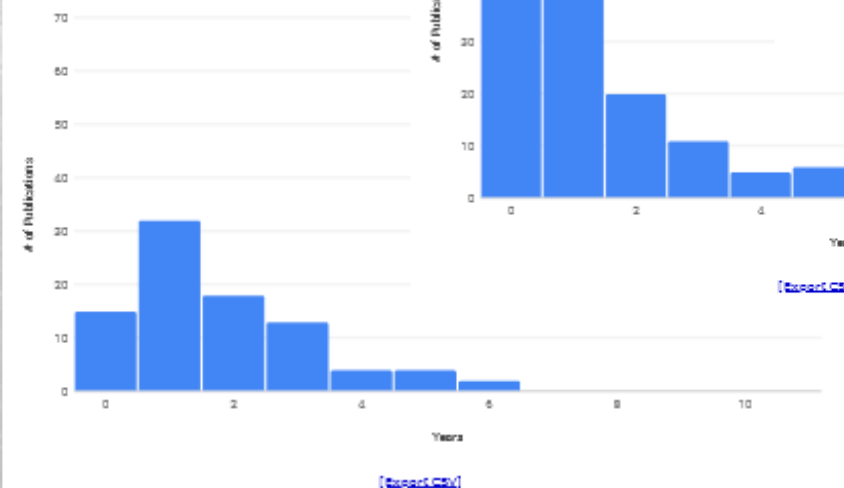
Logged as: **Venicio DUIC** (66743) [[Sudo](#)] - [[Logout](#)]

[Home](#)

Years from: to Publication type: [[Go](#)]

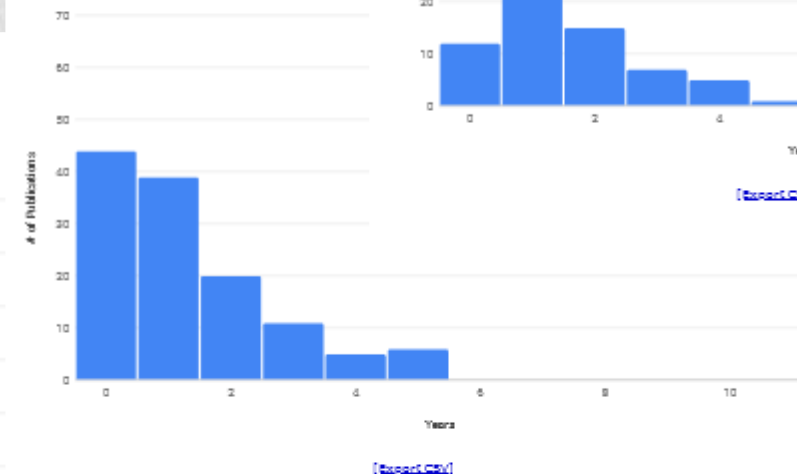
TWINMIC

Time to publication (years 2010 - 2023)
Time from Last Beamtime to First Publication Linked to it



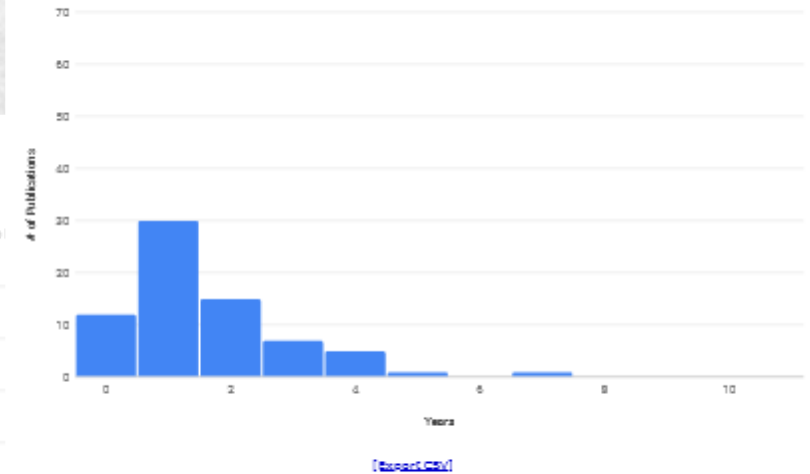
SYRMEP

Time to publication (years 2010 - 2023)
Time from Last Beamtime to First Publication Linked to it



SUPERESCA

Time to publication (years 2010 - 2023)
Time from Last Beamtime to First Publication Linked to it





Standard Reports Multi-purpose Reports

Still subject-specific but provide much broader data for custom filtering & processing

The screenshot shows the VUO - Virtual Unified Office interface. At the top left is the Elettra Sincrotrone Trieste logo. The main header reads "VUO - Virtual Unified Office". Below this is a yellow bar with the text "VUO - Report". A red bar indicates the user is logged in as a superuser (66743 Sudo) with a [Logout] link. Navigation links for Home, Report, Admin, and Workflow are provided. The main content area is divided into two columns of links. The left column is titled "By date range" and includes links for various proposal and allocation reports, such as "All proposals (Filter based on submission date)", "Riz proposals (Austria, Slovenia, Croazia)", and "Country vs. Beamline Number of Scheduled Shifts". The right column is titled "By semester" and includes links for "All proposals", "Riz proposals (Austria, Slovenia, Croazia)", and "Country vs. Beamline Number of Proposals". At the bottom of the page, there are additional links for "Proposal Review Panel members", "Institutes", "Users Roles", "Usage by week", and "Usage by month".



Standard Reports General-purpose Reports

Just select subject & time-frame

Dates selection

The screenshot shows the VUO - Virtual Unified Office interface. At the top left is the Elettra Sincrotrone Trieste logo. To its right is the text "VUO - Virtual Unified Office". Below this is a yellow bar with the text "VUO - Date mask". Underneath is a yellow bar with the text "Logged as: Venicio DUIC (66743) [Sudo] - [Logout]". Below that is a blue bar with the text "Home". The main content area is a white box with a blue header "Date range". Inside this box, there are two rows: "Begin date:" with a text input field containing "01/01/2023" and a calendar icon; and "End date:" with a text input field containing "01/01/2024" and a calendar icon. A red box highlights these two input fields. At the bottom right of the white box are the links "[Save] [Back]".



Embedded Reports

Some VUO applications expose data in tabular form that can be also downloaded (exactly as currently shown)



Logged as: [Venicio DUIC](#) (66743) [[Sudo](#)] - [[Logout](#)]
[Home](#)

[Cre](#)

Beamline: NANOSPECTROSCOPY

Enter your query [Clear](#)

[\[Search\]](#)

Proposals of NANOSPECTROSCOPY - sorted by "Proposal" descending

Proposal	Type	Proposer	Title	Period	Assigned Beamline	Committee	Research Area	Score	Status
[Select] 20235548	General user	COJOCARIU	Magnetic proximity effects in graphene-capped EuO/Co interface	Sem-58	NANOSPECTROSCOPY	H	C	2.06	Scheduled
[Select] 20235542	General user	KOUNADIS	Investigation of carbonation resistance of Portland cement mixtures containing cement klin dust, by-pass filter dust and metakaolin	Sem-58	SISSI - Mat Science	S	S	4.41	Evaluated
[Select] 20235523	General user	SLEZAK	Antiferromagnetic 180-degree domains in NiO(111)	Sem-58	NANOSPECTROSCOPY	C	C	2.47	Not allocated
[Select] 20235517	General user	TREGLIA	Spatially heterogeneous evolution of surface chemistry in tin halide perovskites under external stimuli	Sem-58	NANOSPECTROSCOPY	H	C	3.8	Not allocated
[Select] 20235492	General user	BORCA	Manipulating Electronic and Magnetic Properties of Intrinsic 2D Antiferromagnetic Materials through Interface Effects	Sem-58	NANOSPECTROSCOPY	H	H	1.8	Scheduled
[Select] 20235458	General user	BRAMBILLA	Investigation of the micromagnetic properties of antiferromagnetic spinterfaces	Sem-58	NANOSPECTROSCOPY	H	H	2.77	Not allocated
[Select] 20235453	General user	RANADE	Understanding the atomistic origin of intrinsic magnetism in pristine spider silk samples	Sem-58	BACH	H	H	5	Not allocated
[Select] 20235431	General user	SALA	Spectromicroscopic characterization of crystalline/vitreous/1D transition of 2D covalent inorganic framework of boroxine rings	Sem-58	NANOSPECTROSCOPY	H	C	2.46	Not allocated
[Select] 20235427	General user	KRISHNAKUMAR	Mos2 Flakes investigated using Dark-Field Low-energy Electron Microscopy (DF-LEEM) and XMCD-PEEM Microscopies	Sem-58	NANOSPECTROSCOPY	H	C	3.32	Not allocated
[Select] 20235409	General user	AZIZIAN KALANDARAGH	Enhancing the performance of Lithium-ion batteries through carbon-based nanomaterials	Sem-58	XAFS	S	S	5	Not allocated
[Select] 20235393	General user	MENGHINI	Electronic structure across the metal insulator transition in Mott-Hubbard vanadium oxide (ultra-)thin films	Sem-58	NANOSPECTROSCOPY	H	H	2.38	Not allocated
[Select] 20235364	General user	FLEGE	Catalytic properties of SmOx metastable phases promoted by CeO2 (111)- and (100)-oriented islands on Cu(111)	Sem-58	NANOSPECTROSCOPY	C	C	2.13	Not allocated
[Select] 20235334	General user	GONZALEZ TORRITO	Structure-dependent exchange and domain wall motion in a synthetic ferrimagnet	Sem-58	NANOSPECTROSCOPY	H	H	2.96	Not allocated
[Select] 20235330	General user	FERRELLI	Rb-intercalated epitaxial monolayer graphene	Sem-58	NANOSPECTROSCOPY	H	C	2.96	Not allocated
[Select] 20235304	General user	PETROVIC	Investigating borophene's potential for electric energy storage devices	Sem-58	NANOSPECTROSCOPY	H	C	2.11	Scheduled
[Select] 20235259	General user	BARRETT	Correlations between Back End of the line Nanosecond Laser Annealing of multiple dielectric capacitors and oxygen vacancy concentration profiles	Sem-58	NANOSPECTROSCOPY	H	H	3.28	Not allocated
[Select] 20235228	General user	SHEVERDYAEVA	Antimicrobial growth on Bi2Se3 studied by XPEEM	Sem-58	NANOSPECTROSCOPY	H	H	3.21	Not allocated
[Select] 20235221	General user	OMAMBAC	Dynamic pinning of surface chemistry and structure during remote epitaxy through graphene	Sem-58	NANOSPECTROSCOPY	C	C	3.79	Not allocated
[Select] 20235220	General user	GOSS	Identifying and characterizing coexisting resistive and ferroelectric switching in HZO	Sem-58	NANOSPECTROSCOPY	C	C	1.32	Scheduled
[Select] 20235074	General user	SALOMON	Structural and electronic properties of massively parallel germanene nanoribbons synthesized by segregation through thin gold film	Sem-58	NANOSPECTROSCOPY	H	H	2.94	Not allocated

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Items: 1-20/906

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[Export csv](#) [\[Esporta csv\]](#) [Main](#)



Ad Hoc Reports

IT provides data on demand (DB direct queries)

The screenshot shows an Excel spreadsheet with a green header bar. The title bar reads "Book1 - Excel" and includes a search box. The ribbon at the top contains tabs for File, Home, Insert, Page Layout, Formulas, Data, Review, View, Help, Table Design, and Query. The spreadsheet itself is filled with a dense grid of data, with columns containing names, dates, and other identifiers. The current selection is cell A1. At the bottom of the spreadsheet, a formula bar shows the text "Elettra proposals_date_01_01_20". The status bar at the very bottom indicates "Select destination and press ENTER or choose Paste" and shows a zoom level of 25%.



Thank you

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