



ExPaNDS Symposium for Librarians and data managers

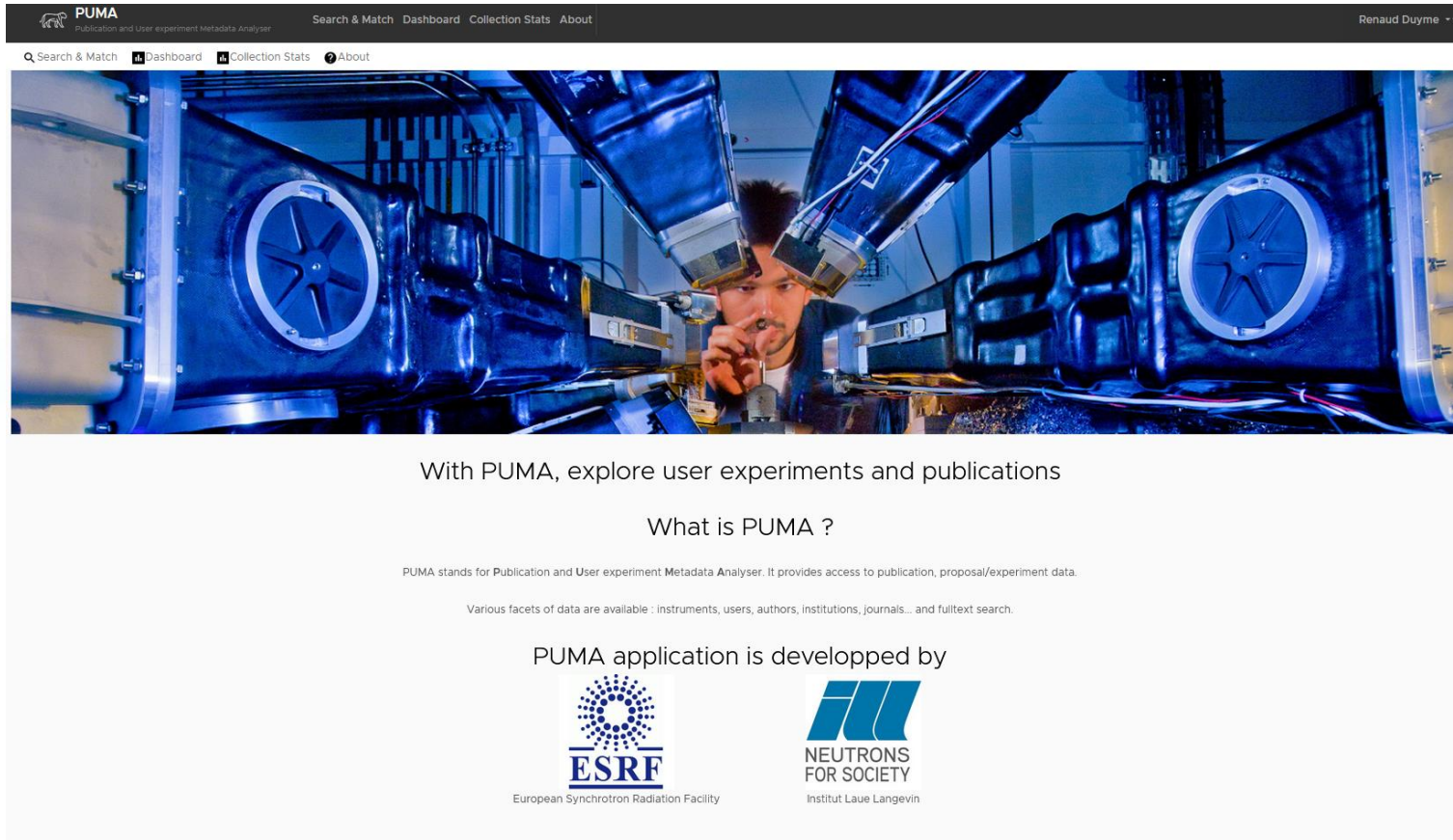
Renaud DUYME

2021/09/30



PUMA : **P**ublication and **U**ser experiment **M**etadata **A**nalysér

- PUMA V1 : Built for the ILL through H2020 funded project FILL2030
- PUMA V2 : ESRF Funded project STREAMLINE : sept 2019 => sept 2022. Migration and enhancement.



The screenshot shows the PUMA web application interface. At the top, there is a navigation bar with the PUMA logo and the text "Publication and User experiment Metadata Analyser". The main content area features a large image of a person working in a laboratory setting, surrounded by complex machinery. Below the image, the text reads: "With PUMA, explore user experiments and publications". A section titled "What is PUMA ?" explains that PUMA stands for "Publication and User experiment Metadata Analyser" and provides access to publication and proposal/experiment data. It also lists various facets of data available for search: instruments, users, authors, institutions, journals, and fulltext search. At the bottom, it states that the PUMA application is developed by ESRF (European Synchrotron Radiation Facility) and NEUTRONS FOR SOCIETY (Institut Laue Langevin).


With PUMA, explore user experiments and publications


What is PUMA ?

PUMA stands for Publication and User experiment Metadata Analyser. It provides access to publication, proposal/experiment data.

Various facets of data are available : instruments, users, authors, institutions, journals... and fulltext search.

PUMA application is developed by

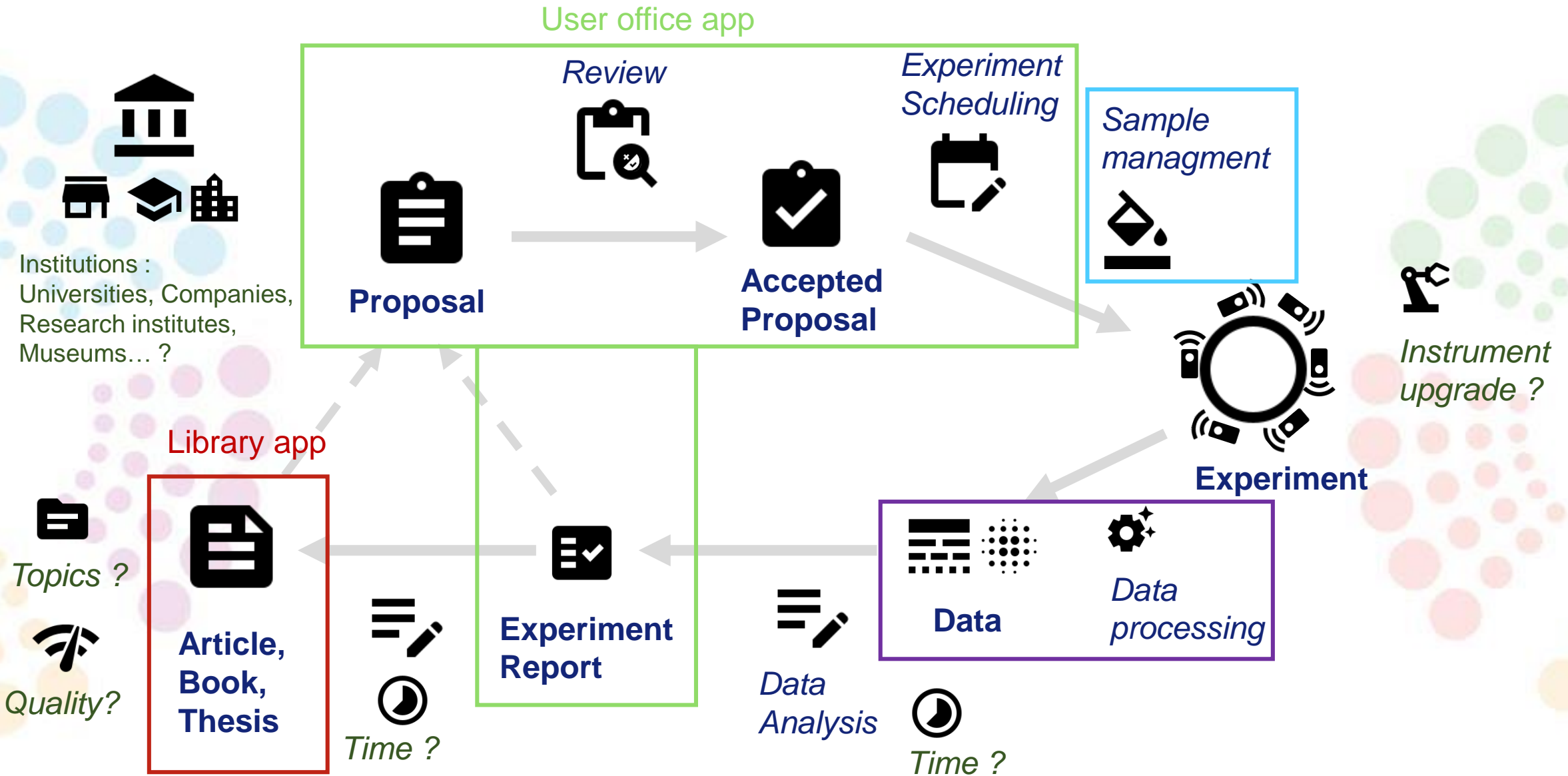
 **ESRF**
European Synchrotron Radiation Facility

 **NEUTRONS FOR SOCIETY**
Institut Laue Langevin



STREAMLINE

PROCESS



STREAMLINE has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 870313.



Motivation of this project

- To allow reporting to the ESRF management and governing bodies (SAC, Council), on beamlines, techniques, scientific areas, member country activities at ESRF based on data from various sources : publications (>40.000), public proposals submitted (>46.000) and accepted (>20.000), industrial proposals (>1300)
- To automate the search of the publications resulting from the ESRF to help librarians in their work in filling accurately the ESRF Library database.

Impact of this project

- Internally : to allow powerful and immediate reporting on metadata that we could not imaging exploiting manually ; to provide a tool to support strategic planning based on the evolution of the beamlines, scientific areas or topic activities.
- Externally: in the case this tool is used by other facilities in Europe (than ESRF and ILL), reporting of all facilities would be based on the same set of metadata and the logic behind the reporting would be identical. This would be a powerful and immediate reporting tool for consortia like LEAPS (League of European Accelerator-based Photon Sources).





STREAMLINE

DEMO

LIVE DEMO



STREAMLINE has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 870313.



Search Module

PUMA
Publication and User experiment Metadata Analyser

Search & Match | Dashboard | Collection Stats | Outreach | Data Management | Admin | About | Renaud Duyme

Document Search | Validated Matches | My Matches | Top Candidates | Integration | Validation Requests | Person | Institution | Help/Questions

Search: "van gogh" painting

Year: From any year to any year

Type: Proposals | Accepted

Search result : 56 documents (0.30s). Showing results 1 to 5

Active filters - Type: proposal | accepted | Expression: "van gogh" painting

Export: XLS | DOI | DOI (WOS)

Proposal Year Stats
(total 56)

Instrument Stats
- Warn logarithmic y axis

puma record : 90391, json
PROPOSAL (ACCEPTED) : co speciation in smalt pigment, in van gogh paintings
Proposal IH-CH-659 | Deposit : October 2012, Operation Year : 2013 | id21 (ESRF)

Authors : cotte marine; nuyts gert; pouyet emeline; cagno simone; hellemans kevin

Keywords : ESRF_PROPOSAL_TYPE : inhouse | ESRF_SCIENTIFIC_AREA : chemistry | USER : thr migration | PUMA :

Abstract : no abstract available for this document.

Institutions : (show affiliations)

European Synchrotron Radiation Facility, Grenoble, FR | University of Antwerp, Antwerpen, BE

FullText : "maximum.) CO speciation in smalt pigment, in Van Gogh" "co speciation in smalt pigment, in van gogh" "paintings" ESRF/CRG Proposer (to whom correspondence" "paintings" embedded in resin and polished Single"

Files : PROPOSAL.pdf smis.esrf.fr

ids : ESRF_SMIS_PROPOSAL_ID : IH-CH-659 | ESRF_SMIS_PROPOSAL_SBM_ID : 65367

puma record : 131867, json
PROPOSAL (ACCEPTED) : ftir on van gogh samples: looking for painting techniques
Proposal IH-CH-518 | Deposit : April 2010, Operation Year : 2010 | id21 (ESRF)

Authors : cotte marine; salvant johanna; walbert charlotte; megens luc; radepont-kolin marie; geldof muriel

Keywords : ESRF_PROPOSAL_TYPE : inhouse | ESRF_SCIENTIFIC_AREA : chemistry | USER : thr migration | PUMA :

Abstract : no abstract available for this document.

Institutions : (show affiliations)

European Synchrotron Radiation Facility, Grenoble, FR | CNRS French National Centre for Scientific Research, Paris, FR | Center for Research and Restoration of Museums of France, Paris, FR | Cultural Heritage Agency of Netherlands, Amerfoort, NL

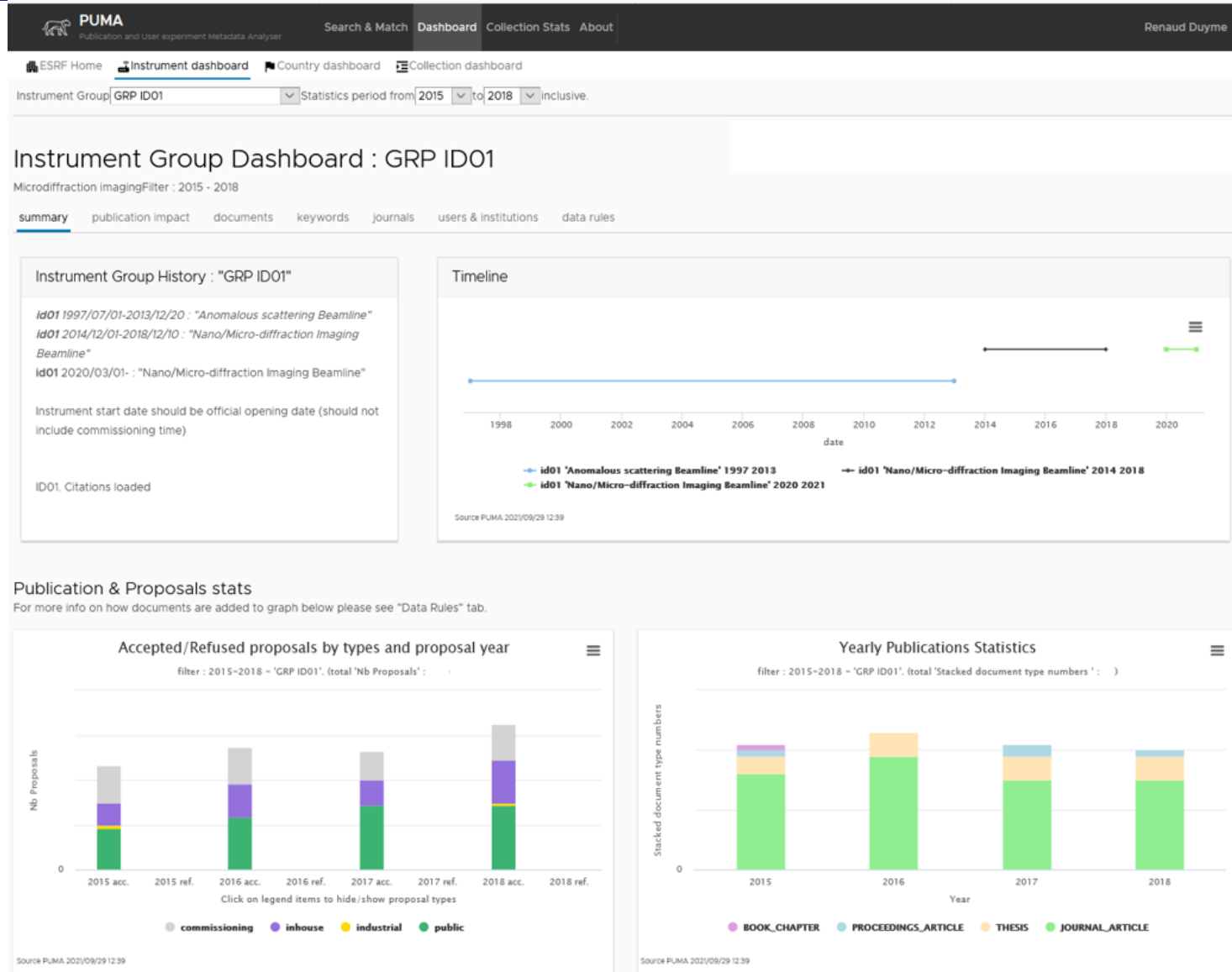
FullText : "maximum.) FTIR on Van Gogh samples: looking for " "painting techniques ESRF/CRG Proposer (to whom" "Description Substance and formula painting fragments"

Files : PROPOSAL.pdf smis.esrf.fr

ids : ESRF_SMIS_PROPOSAL_ID : IH-CH-518 | ESRF_SMIS_PROPOSAL_SBM_ID : 65231

Included in collections : esrf_prop | Target collection : Select new target collection





PUMA
Publication and User experiment Metadata Analyser
Search & Match | **Dashboard** | Collection Stats | About
Renaud Duyme

[ESRF Home](#) | [Instrument dashboard](#) | [Country dashboard](#) | [Collection dashboard](#)

Instrument Group Dashboard : GRP ID01

Microdiffraction imaging Filter : 2015 - 2018

summary | **publication impact** | documents | keywords | journals | users & institutions | data rules

Publication count 2015 - 2018

Publications : █

Publications in journal with Impact Factor : █

Publications in journal without Impact Factor : █

Other publications (book, thesis...) : █

Citation count 2015 - 2018

Total: █ citations

Average: █

Source for number of citations is Web Of Science (WoS).
Average formula : █
[read more](#)

h-Index 2015 - 2018

█

The **h-index** is defined as the maximum value of h such that the given instrument data was used to publish h papers that have each been cited at least h times. [read more](#)

Please use H-index with care. H-index is calculated using data from 2015 - 2018. Instrument inception date affects H-index, by making value greater for older instruments. H-index is calculated ignoring all data prior 2015.

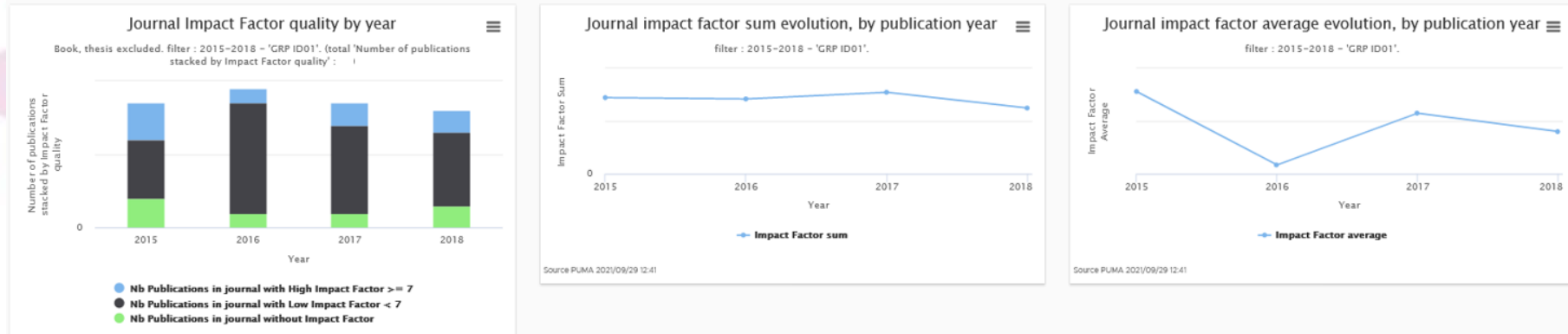
Journal Impact Factor 2015 - 2018

Average: █

Minimum: █ Maximum: █

The impact factor (IF) of an academic journal is a scientometric index that reflects the yearly average number of citations that articles published in the last two years in a given journal received. [read more](#)

Impact factor and citations details





Documents count by country

Collection : esrf_grp_id01_proposal (2010-2021) Main proposer only.. Total docs 553

+
-



	count
<input type="radio"/> WORLD	
<input type="radio"/> NO_INST**	
<input checked="" type="radio"/> DE	
<input type="radio"/> CH	
<input type="radio"/> GB	
<input type="radio"/> AT	
<input type="radio"/> NL	
<input type="radio"/> IT	

1 - 10 of 21 rows

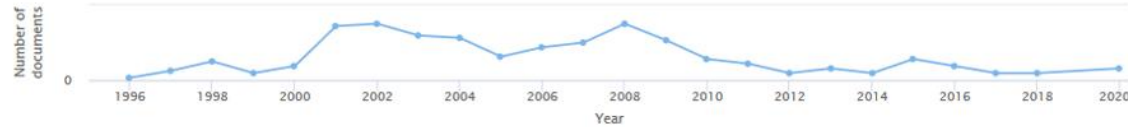
<< 1 / 3 >>

EU ZOOM

NO_AFF*: Number of documents without author affiliation. Can happen for publications not yet fully loaded by PUMA
 NO_INST**: Number of documents with at least one author affiliation not resolved to an official institution (or at least country/city) by PUMA. Affiliation resolver not ran or no result found for affiliation. See : [Missing institutions stats](#)

Evolution of documents for Germany

Collection : esrf_grp_id01_proposal (2010-2021) Main proposer only.



Documents count by city in Germany

Collection : esrf_grp_id01_proposal (2010-2021) Main proposer only.

+
-



	count
<input type="radio"/> Hamburg	
<input type="radio"/> Berlin	
<input type="radio"/> Siegen	
<input type="radio"/> Frankfurt (Oder)	
<input type="radio"/> Göttingen	
<input type="radio"/> Munich	
<input type="radio"/> Jülich	
<input type="radio"/> Aachen	
<input type="radio"/> Bayreuth	
<input type="radio"/> Chemnitz	

1 - 10 of 16 rows

<< 1 / 2 >>

EU ZOOM

WORLD ZOOM

Main institutions in Germany. Click on a city for more institution data

University of Siegen () - Siegen - DE : 9 docs	Deutsches Elektronen-Synchrotron DESY () - Hamburg - DE : 9 docs	Innovations for High Performance Microelectronics () - Frankfurt (Oder) - DE : 8 docs	Paul Drude Institute for Solid State Electronics () - Berlin - DE : 5 docs	Leibniz Institute for Crystal Growth () - Berlin - DE : 4 docs	University of Göttingen () - Göttingen - DE : 3 docs	European X-Ray Free Electron Laser () - Hamburg - DE : 2 docs	Ludwig Maximilian University of Munich () - Munich - DE : 2 docs
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8/22 institutions displayed



PUMA Publication and User experiment Metadata Analyser

[Search & Match](#) [Dashboard](#) [Collection Stats](#) [About](#)

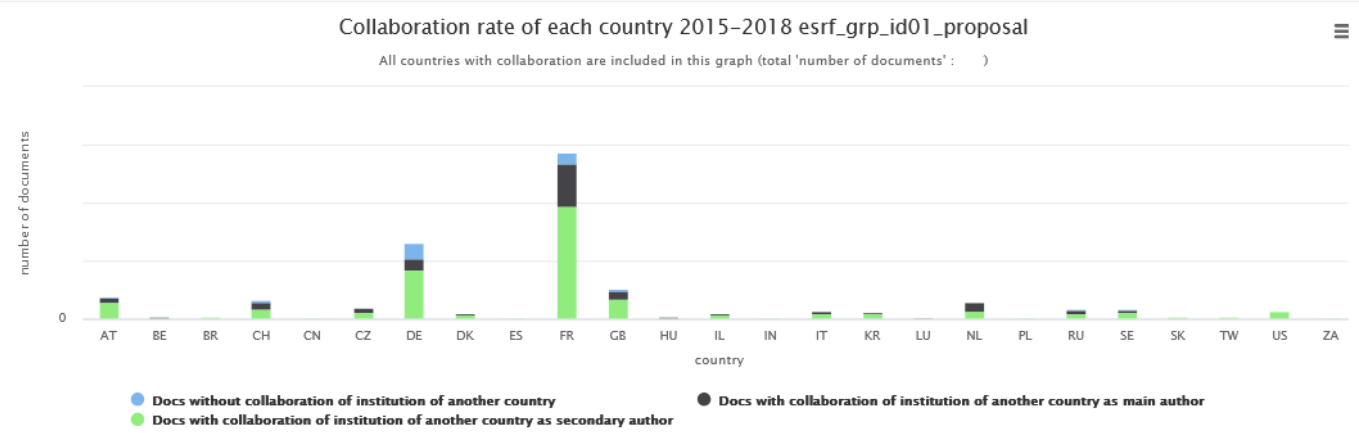
[Map & institutions](#) [Country contribution publication](#) [Journals](#) [Impact Factor](#) [Keywords](#)

Country collaboration in collection

A document in collection can have authors coming from multiple countries. Below are displayed country collaboration figures

Collaboration rate of each country 2015–2018 esrf_grp_id01_proposal

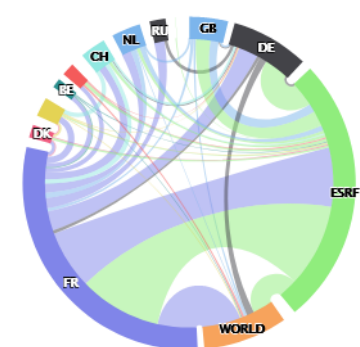
All countries with collaboration are included in this graph (total 'number of documents':)



■ Docs without collaboration of institution of another country
■ Docs with collaboration of institution of another country as secondary author
■ Docs with collaboration of institution of another country as main author

Country collaboration stats 2015–2018 esrf_grp_id01_proposal

Only ESRF members countries are included in this graph.



From	To
GB	DE
GB	ESRF
GB	WORLD
ESRF	DE
GB	FR
FR	WORLD
FR	DE
FR	ESRF
DE	FR
DK	FR
DK	ESRF
DK	SE
FR	BE
FR	IT
BE	FR





PUMA
Publication and User experiment Metadata Analyser

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Renaud Duym

Document Search [Help/Questions](#)

Collection: esrf_streamline_glatzel_1_pub ▼
User working collection publications

Search result : 977 documents (0.49s). Showing results 1 to 5

Active filters - Collection : esrf_streamline_glatzel_1_pub Type : publication

FIRST
PREVIOUS
1
2
3
4
5
6
7
8
9
10
NEXT
LAST

puma record : 220806, json

JOURNAL_ARTICLE : Easy Accommodation of Different Oxidation States in Iridium Oxide Nanoparticles with Different Hydration Degree as Water Oxidation Electrocatalysts

10.1021/acscatal.5b01281 September 2015 (Publication Year : 2015), acs catalysis (american chemical society (acs))

Authors : minguzzi alessandro; locatelli cristina; lugaresi ottavio; achilli elisabetta; cappelletti giuseppe; scavini marco; coduri mauro; masala paolo; sacchi benedetta; vertova alberto; ghigna paolo; rondinini sandra

Keywords : PUMA : xanes exafs operando

Abstract : in this paper, we present a comprehensive study on low hydration ir/iro2 electrodes, made of an ir core and an ir o2 shell, that are designed and synthesized with an innovative, green approach, in order to have a higher surface/bulk ratio of ir-o active centers. three materials with different hydration degrees have been deeply investigated in terms of structure and microstructure by means of transmission electron microscopy (tem) and synchrotron radiation techniques such as high-resolution (hr) and pair distribution function (pdf) quality x-ray powder diffraction (xprd), x-ray absorption spectroscopy (xas), and for what concerns their electrochemical properties by means of cyclic voltammetry and steady-state i/e curves. the activity of these materials is compared and discussed in the light of our most recent results on hydrous ir ox. the main conclusion of this study is that the ir core is noninteracting with the iron shell, the latter being able to easily accommodate ir in different ...

Institutions : [\(show affiliations\)](#)

University of Milan, Milano, IT

Files :
 PUBLICATION pdf efn-library.esrf.fr
 ids :
 ESRF_FLORA_ID : 42124

Included in collections :

esrf_pub	Target collection : Select new target collection ▼
esrf_streamline_glatzel_1_pub <input checked="" type="checkbox"/> validated ▼	
esrf_grp_bm08_publication	

puma record : 220807, json

JOURNAL_ARTICLE : Synthesis of a Bimetallic Dodecaborate LiNaB12H12 with Outstanding Superionic Conductivity

10.1021/acs.chemmater.5b01568 August 2015 (Publication Year : 2015), chemistry of materials (american chemical society (acs))

Authors : he liqing; li hai-wen; nakajima hironori; tumanov nikolay a.; filinchuk yaroslav; hwang son-jong; sharma manish; hagemann hans; akiba etsuo

Keywords : CROSSREF_SUBJECT : general chemistry general chemical engineering materials chemistry PUMA : diffraction

Abstract : metal dodecaborates m2/nb12h12 (n denotes the valence of the metal m), containing icosahedral polyatomic anion [b12h12]2-, have been attracting increasing interest as potential energy materials, especially in the context of hydrogen storage(1, 2) and superionic conductivity.(3) m2/nb12h12 are commonly formed as dehydrogenation intermediates from metal borohydrides m(bh4)n, like libh4 and mg(bh4)2,(4-8) which are well-known as potential high-density hydrogen storage materials.(9-11) the strong b-b bond in the icosahedral [b12h12]2-, however, is regarded to be the key factor that prevents the rehydrogenation of dodecaborates.(12) in order to elucidate the mechanism as well as to provide effective solutions to this problem, a novel solvent-free synthesis route of anhydrous m2/nb12h12 (here m means li, na, and k) has been developed.(13) thermal stability and transformations of the anhydrous single phase li2b12h12 suggested the formation of the high temperature polymorph of li2b12h12 dur...

Institutions : no institutions yet matched for this document.

Collection 'esrf_streamline_glatzel_1_pub' validation status by year

All collection content without any filter applied. (total 'documents by year' : 977)

Year	Validated	Excluded
2010	30	10
2011	45	10
2012	55	10
2013	45	10
2014	55	10
2015	85	15
2016	85	10
2017	100	20
2018	105	15
2019	115	20
2020	105	15
2021	5	5

Source PUMA 2021/09/29 11:00

Search result : 977 documents found (with active search filters) Collection "esrf_streamline_glatzel_1_pub".

Export : XLS DOI DOI (WOS)

COPY 977 DOCS from 'esrf_streamline_glatzel_1_pub' to ▼

Publication Year Stats

(total 977)

Year	Number of Documents
2010	35
2011	45
2012	65
2013	55
2014	65
2015	100
2016	100
2017	125
2018	125
2019	140
2020	120
2021	10

Source PUMA 2021/09/29 11:00





STREAMLINE

QUESTIONS

QUESTIONS ?



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