



IRINS

Indian Research Information Network System

<http://irins.org>

Kannan P
Deputy Librarian
Central University of Punjab | Bathinda
Kannan.p@cup.edu.in

<https://doi.org/10.25610/x923-gd97>

Siva Sharkar K
Scientist - B
INFLIBNET Centre

How are research related information shared or disseminated?

- ✓ HR system
- ✓ Grant Management System
- ✓ Institutional repositories
- ✓ Preprint archives
- ✓ Publishers Website
- ✓ Academic Identity registry
- ✓ Citation databases
- ✓ Social Media Repository



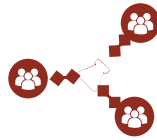
The Challenges in the research eco-system



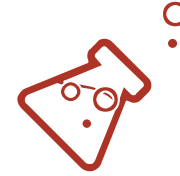
Research activities of the faculty members or Organizations are not discoverable or interoperable in the Institute / National level.



Publications do not necessarily reflect expertise of individuals and organizations



Hard to find the right experts within and across institutions for collaborative research.



Many faculty members, scholars are not aware about research happening within organization.



No common forum within organization or across organizations to communicate emerging areas of interest.

Expectation from the stakeholders



As a Scholar

- ✓ Locate mentors, advisors & collaborators;
- ✓ Locate facilities, events, and fellowship;
- ✓ Find courses in an area of interest.



As a Faculty / Scientist

- ✓ Ensure their work is discoverable and connected;
- ✓ Showcase their contributions to the peers group;
- ✓ Increasing funding opportunity for research and greater exposure to the international community.



As Research Administrator

- ✓ Find out the research progress;
- ✓ Build research reports, carry out performance assessments, research impact analysis;
- ✓ Improve faculty collaboration within or across departments and institutions; and
- ✓ Grant Information Management



Real Life Questions

- ✓ What research has University produced? In the last 10 years?
- ✓ How many times has University research output been viewed / cited?
- ✓ Where are University researchers doing their projects?
- ✓ Who are we doing work with, internationally?
- ✓ What is the h-index of the faculty member / department / University?

How the research information related queries addressed today?



WEB OF SCIENCE™



0.6% of the Higher Education
Institution

25% of Degree Awarding
Institutions



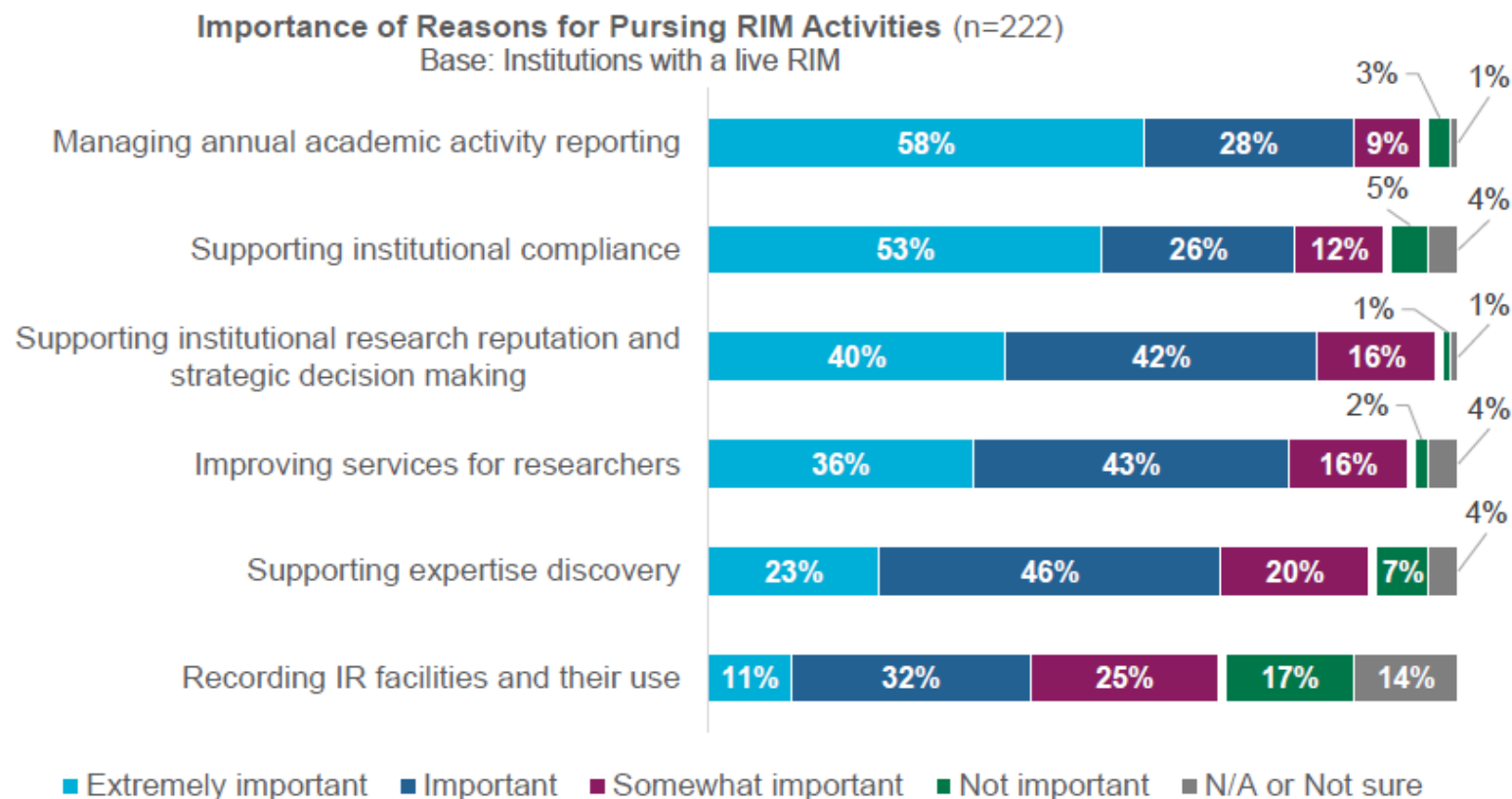
Other institutes using
Google Scholar & Microsoft
Academic Search

The legacy approach
required lot of sweat



Why we need RIM in the institute level?

Reporting and compliance drive RIM adoption





Solution: Develop an open source research information management system to collect, organise the scholarly communication activities in the institute level and the curated data used for research reporting and decision making.

- ✓ The Central University of Punjab, Bathinda and INFLIBNET Centre developed an open source software called "**Indian Research Information Network System (IRINS)**" under National Mission on Education through ICT ;
- ✓ At present the IRINS is available as "software as service";

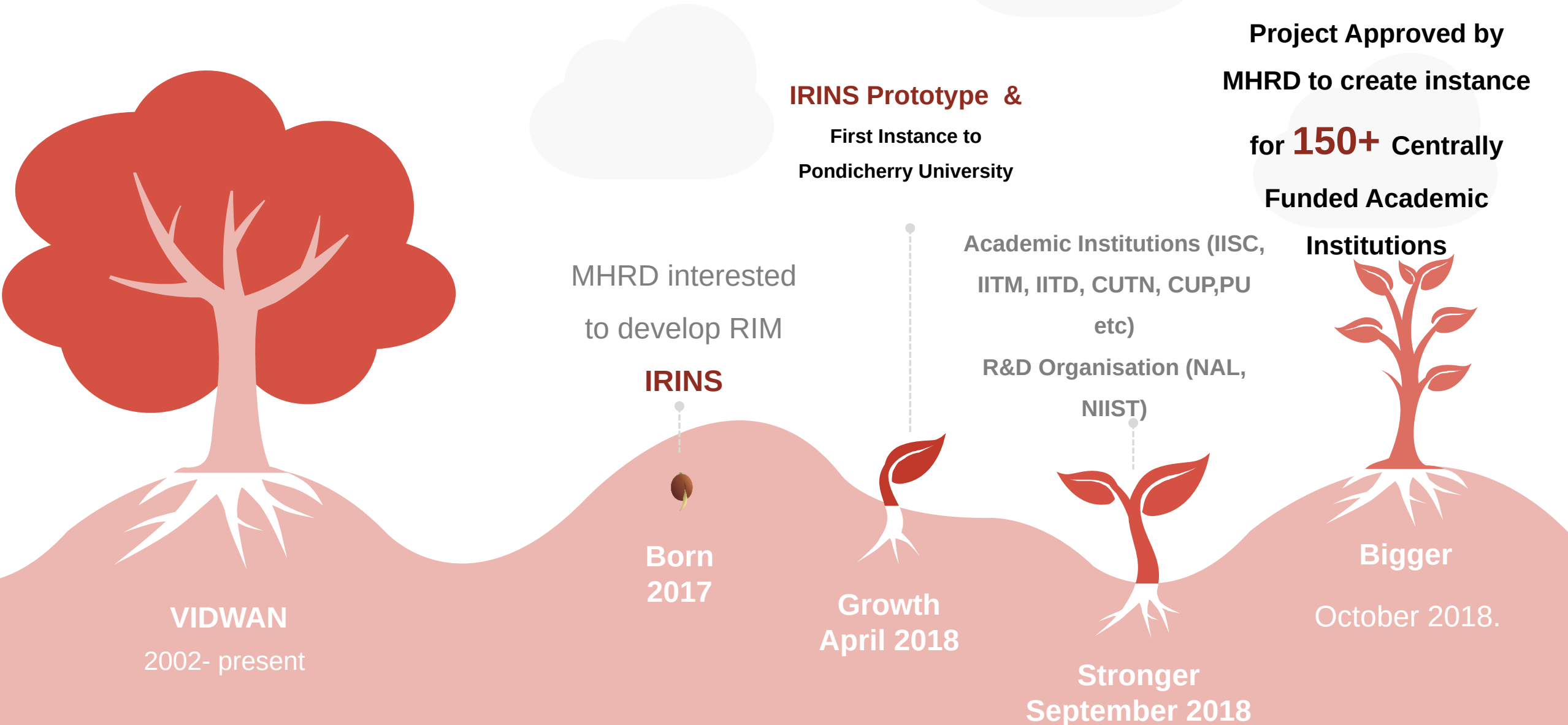


What is IRINS?

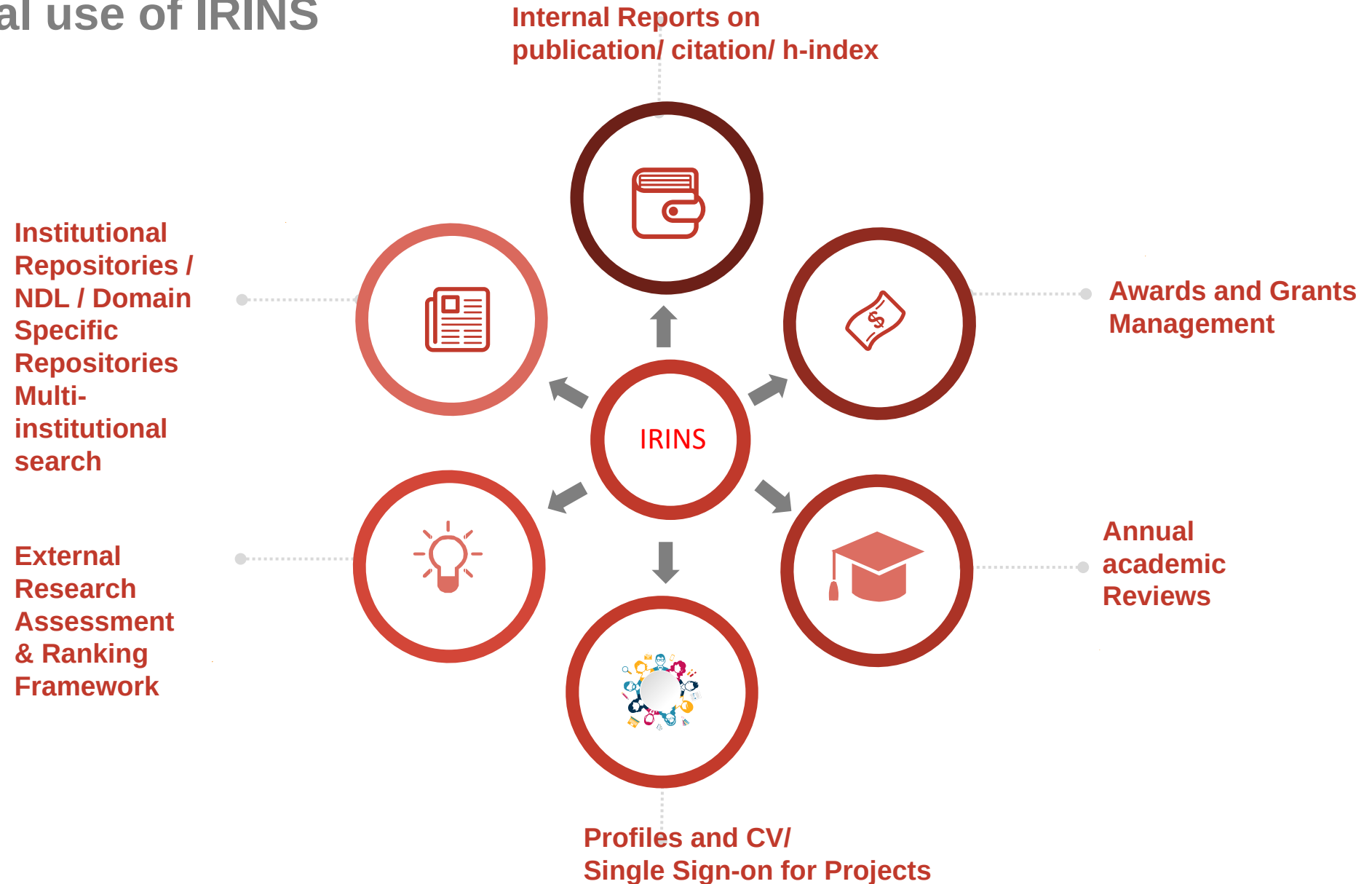
IRINS as Research Information Management System

- ✓ it captures scholarly communication artifacts such as people who do research and their group (Personal information and affiliation), their research activities (grants / projects), achievements (Honours/awards) and their research output (publications and more)
- ✓ It could be integrated with existing campus management system such as faculty profile, institutional repository, grant management system, etc
- ✓ It support data visualization and reporting on organisation research activity and output
- ✓ It consumes and produces key information to institute's core research

Birth and Journey of IRINS



Functional use of IRINS



Key Features and Functionalities



Dashboard

- ✓ Manage profiles
- ✓ Import profile information
- ✓ Generate report



Academic Identity

- ✓ Integrated with Academic Identity to systematic update of publications.



Citation

- ✓ Citation from **Scopus, CrossRef**
- ✓ Publication venue from **Crossref**
- ✓ OA articles link from **BASE** Search.



Search

- ✓ SOLR based faceted search with number of filters to find an expert



Analytics

- ✓ Research progress of the faculty, department, institute (publication)



Network

- ✓ Co-author network based on publication collaboration



Social Media Metrics

- ✓ Social media metrics from Altmetric.



Link to IR

- ✓ Full text Article link to Institutional repository & domain specific repository

IRINS Data workflow



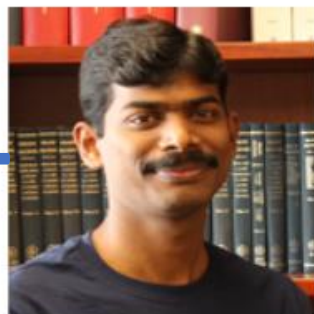
Indian Institute of Technology Madras
Scholars Profiles
The Central Library Initiative



Personal Information

CV, HR, ORCID ID

01



Profile
Personal Information
Expertise Information
Experience
Education Qualification
Doctoral Theses
Publications

Academic Identity

Orcid Id
0000-0001-6049-5023

Scopus Id
9845965200

Researcher Id
E-7054-2011

Google Scholar Id
lBhSXyMAAAAJ

Microsoft Academic Search Id
2156934914

Profile-ID : 61916

Edit Profile

Dr Pazhamalai Anbarasan

Associate Professor
 Indian Institute of Technology, Madras

Expertise

Chemical Engineering

Organic synthesis

Personal Information

Dr Pazhamalai Anbarasan

Male

Department of Chemistry Indian Institute Of Technology, Madras, Tamil Nadu, India

India, Tamil Nadu, Chennai - 600036

<http://chem.iitm.ac.in/faculty/anbarasan/>

Experience

2016 - Present
 Associate Professor
Indian Institute of Technology, Madras, Chennai

2011 - 2016
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Indian Institute of Technology, Madras, Chennai

Qualification

2007
 Ph.D
Indian Institute of Science Bangalore

Doctoral Theses Guided

2018 Transition metal catalyzed construction of C-C and C-Heteroatom bonds via C-H bond functionalization

, Indian Institute of Technology Madras

IRINS Data workflow



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Publication Information



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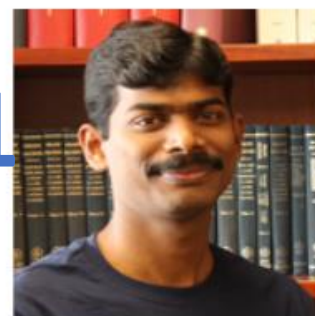
Scopus



ORCID



02



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Scholar

ORCID



Impact



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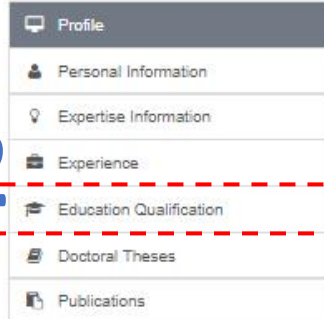


CROSSREF



02

03



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IRINS Data workflow



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01



Publication Information



Scopus



ORCID



02



Impact



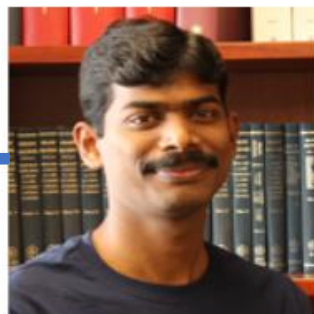
03



Analytics



04



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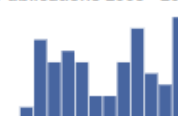
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Dr Pazhamalai Anbarasan

Associate Professor
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Publications 2005 - 2018



Publications

All Publication - 57 Publications With Current Affiliation

56 Journal Articles
1 Review
3 53

Citations / H-Index

Scopus
2676
CITATIONS

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H-INDEX

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2584
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Google Scholar

CITATION
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Total

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(2013-)

H INDEX
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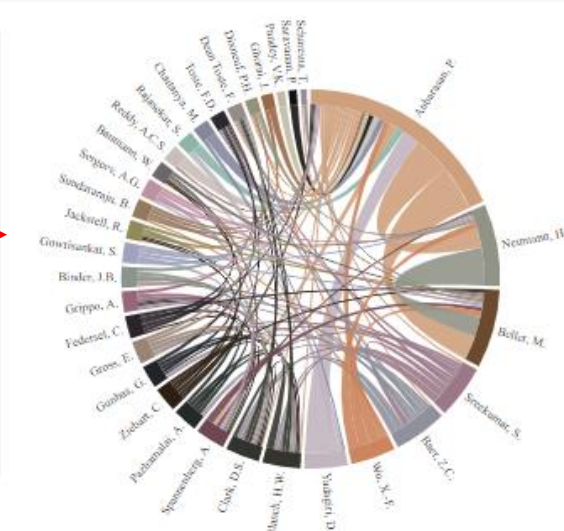
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I-10 INDEX
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Total

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(2013-)

Years

- ☒ 2018
- ☒ 2017
- ☒ 2016
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46 Citations
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IRINS Data workflow



Indian Institute of Technology Madras
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Research output



ORCID



02



Citation & Metrics



03



Data Visualization



04



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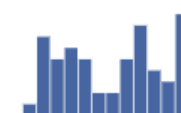
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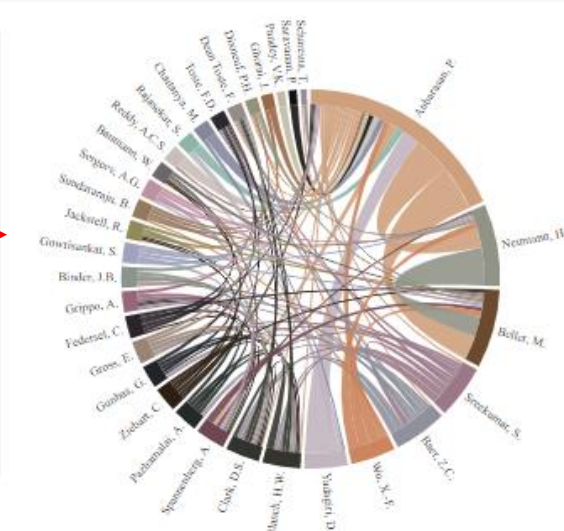
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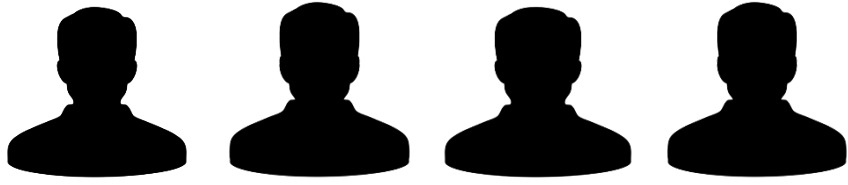
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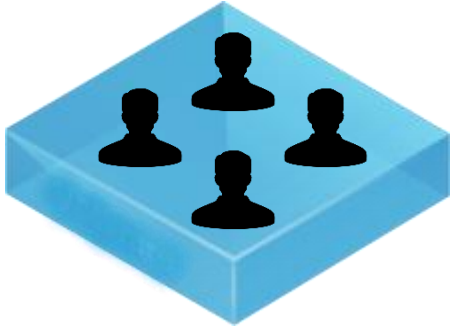
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IRINS @ Institute level



Faculty Profiles



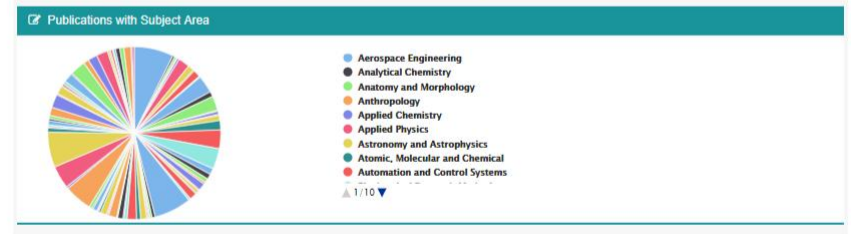
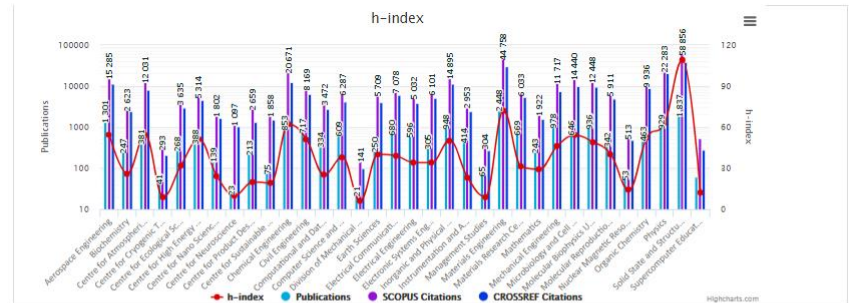
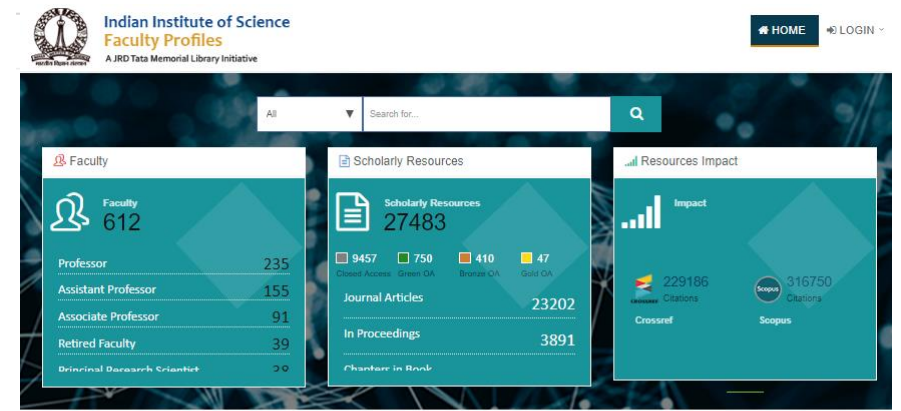
Department Profiles

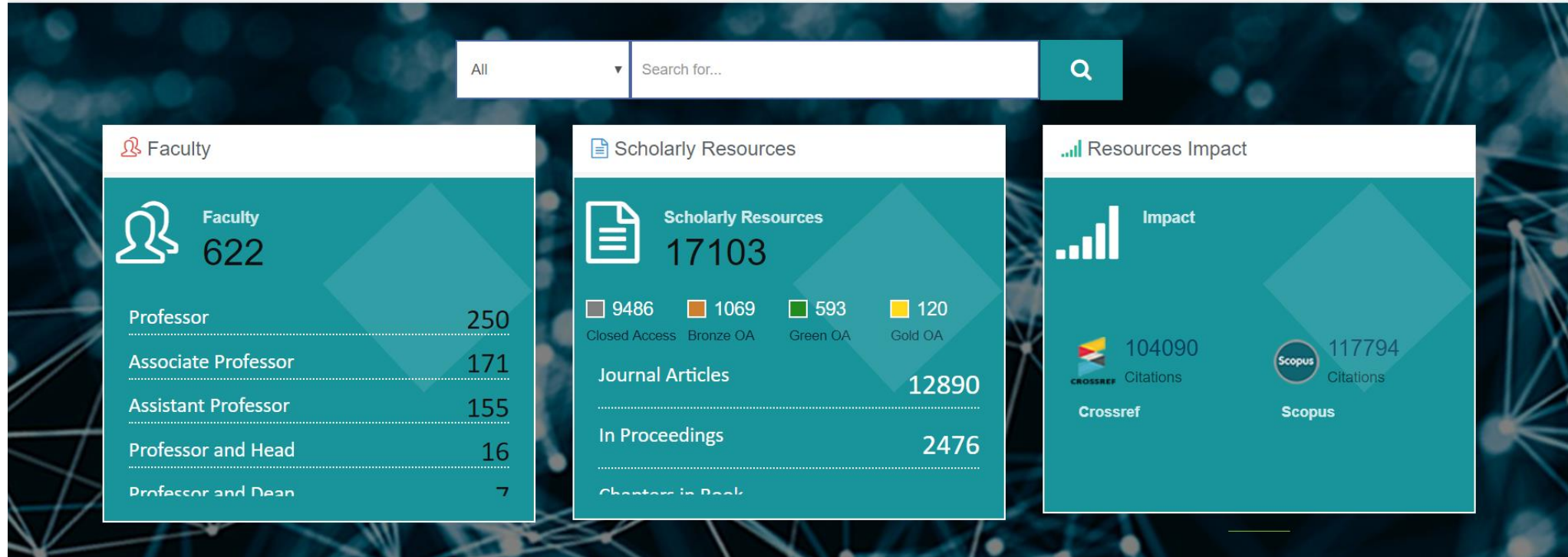
(Aerospace Engineering)



IRINS at Institute level

Institute Profile





Departments	
Department of Aerospace Engineering	(30)
Department of Applied Mechanics	(33)
Department of Biotechnology	(32)
Department of Chemical Engineering	(35)
Department of Chemistry	(38)
Department of Civil Engineering	(58)

Faculty Profile	
	Dr Prafulla Kumar Behera Associate Professor 1034 Publications 32792 Crossref 39654 Scopus View Profile
	Prof Pradeep Thalappil Professor 438 Publications 12288 Crossref 15056 Scopus View Profile

Article	
	Observation of a new particle in the search for th...
Author: Aad, G. and Abajyan, T. and Abbott, B. and Abdallah, J. and Abdel Khalek, S. and Abdelalim, A.A. and Abdinov, O. and Aben, R. and Abi, B. and Abolins, M. and AbouZeid, O.S. and Abramowicz, H. and Abreu, H. and Acharya, B.S. and Adamczyk, L. and Adams, D.L.	
	4320 Citation
	4356 Citation
	A tractable approach to coverage and rate in cellu...



Department of Chemistry



1635

Journal Articles



28

In Proceedings



6

Books



16890

Citations



17957

Citations



75

h-index

Publications



9

49

44

925



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Professor and Head
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Resolution Molecu...

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Professor and Dean
Fluorescent molecular probes for micro-
and nano-s...

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Prof Upadhyayula V Varadaraju

Professor
Chemistry/Inorganic Solid State
Chemistry and Mola...

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Prof Archita Patnaik

Professor
Colloid and Interface Chemistry...

90 Articles 6 Awards

[View Profile](#)



Prof Sanjay Kumar

Professor
Computational Modeling of Organic
reactions & the...

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Prof Ranga G Rao

Professor
Surface chemistry and spectroscopy.
Solid state el...

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Prof Sundarababu Baskaran

Professor
Development of new strategies in
Organic Synthesis...

73 Articles 2 Awards

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Prof Pradeep Thalappil

Professor
Nanoscience and Nanotechnology,
Nanomaterials, Ica...

438 Articles 11 Projects

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Prof M.V. Sangaranarayanan

Professor
Statistical mechanics, Mathematical
modelling, Interfac...

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Prof K Vidyasagar

Professor
Inorganic Chemistry...

43 Articles

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Prof Indrapal Aiden Singh

Professor
Synthesis of Biologically/Medicinally
Important mo...

1 Award

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Prof P Bhyrappa

Professor
Bioinorganic and Supramolecular
Chemistry, Materia...

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Dr. R Dhamodharan

Professor
Polymer Chemistry : Controlled Radical
Polymerizat...

55 Articles

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Dr. Dillip Kumar Chand

Professor
Supramolecular Chemistry...

42 Articles

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Prof N Narasimha Murthy

Professor
Bioinorganic and Inorganic Chemistry,
Spectroscopy...

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Dr. G Sekar

Professor
Asymmetric Synthesis, Total Synthesis of
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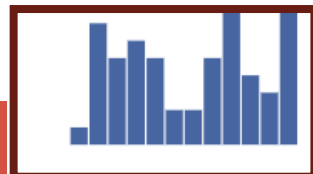
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Publications 2005 - 2018



Publication Chart

Publications

All Publications - 56

56
Journal Articles

3
53

Citations / H-Index

Scopus
2627
CITATIONS

H
23
H-INDEX

CROSSREF
2562
CITATIONS

Google Scholar

CITATION
2960
Total

2366
(2013-)

H INDEX
26
Total

23
(2013-)

I-10 INDEX
41
Total

30
(2013-)

Publications count and Citation

Well-defined iron catalyst for improved hydrogenation of carbon dioxide and bicarbonate

Ziebert, C. and Federsel, C. and Anbarasan, P. and Jackstell, R. and Baumann, W. and Spannenberg, A. and Beller, M.

ARTICLE Journal of the American Chemical Society, Volume 134, Year 2012, Pages 20701-20704
DOI:10.1021/ja307924a

200
Citations

212
Citations

Integration of chemical catalysis with extractive fermentation to produce fuels

Anbarasan, P. and Baer, Z.C. and Sreekumar, S. and Gross, E. and Binder, J.B. and Blanch, H.W. and Clark, D.S. and Dean Toste, F.

ARTICLE Nature, Volume 481, Year 2012, Pages 235-239
DOI:10.1038/nature11594

178
Citations

182
Citations

Recent developments and perspectives in palladium-catalyzed cyanation of aryl halides: Synthesis of benzonitriles

Anbarasan, P. and Scharolna, T. and Beller, M.

ARTICLE Chemical Society Reviews, Volume 40, Year 2011, Pages 5049-5057
DOI:10.1039/c1cs15004a

285
Citations

285
Citations

A general cyclocarbonylation of aryl bromides and triflates with acetylenes: Palladium-catalyzed synthesis of 3-alkylidene-furan-2-ones

Wu, X.-F. and Sundararaju, B. and Anbarasan, P. and Neumann, H. and Dineuf, P.H. and Beller, M.

ARTICLE Chemistry - A European Journal, Volume 17, Year 2011, Pages 8014-8017
DOI:10.1002/chem.201101083

29
Citations

32
Citations

A novel and convenient synthesis of benzonitriles: Electrophilic cyanation of aryl and heteroaryl bromides

Anbarasan, P. and Neumann, H. and Beller, M.

ARTICLE Chemistry - A European Journal, Volume 17, Year 2011, Pages 4217-4222
DOI:10.1002/chem.201003388

80
Citations

75
Citations

Novel C-H functionalization of arenes: Palladium-catalyzed synthesis of diaryl sulfides

Anbarasan, P. and Neumann, H. and Beller, M.

ARTICLE Chemical Communications, Volume 47, Year 2011, Pages 3233-3235
DOI:10.1039/c0cc04405a

46
Citations

46
Citations

Profile

Personal Information

Expertise Information

Experience

Education Qualification

Doctoral Theses

Publications

Academic Identity

Orcid Id
0000-0001-6049-5023

Scopus Id
9845965200

Researcher Id
E-7054-2011

Academic
Identity



Profile-ID : 61916

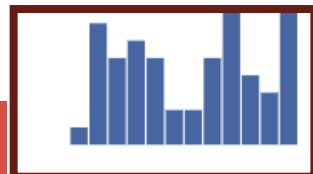
Edit Profile

Dr Pazhamalai Anbarasan

Associate Professor

Indian Institute of Technology, Madras

Publications 2005 - 2018



Publication Chart

Profile

Personal Information

Expertise Information

Experience

Education Qualification

Doctoral Theses

Publications

Academic Identity

Orcid Id
0000-0001-6049-5023

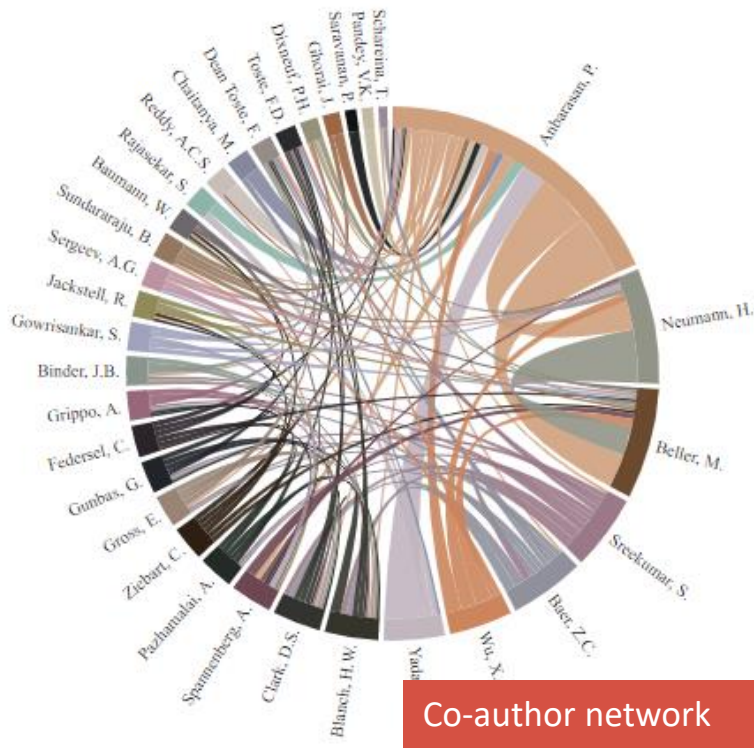
Scopus Id
9845965200

Researcher Id
E-7054-2011

Academic
Identity

Years

- ☒ 2018
- ☒ 2017
- ☒ 2016
- ☒ 2015
- ☒ 2014
- ☒ 2013
- ☒ 2012
- ☒ 2011
- ☒ 2010
- ☒ 2009



Co-author network

Well-defined iron catalyst for improved hydrogenation of carbon dioxide and bicarbonate

Ziebart, C. and Federsel, C. and Anbarasan, P. and Jackstell, R. and Baumann, W. and Spannenberg, A. and Beller, M.

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DOI:10.1039/c1cc04405a

46 Citations 46 Citations

Benefit to the stakeholders



Faculty Members and Scientists

- ✓ Reduce the repetitive data entry;
- ✓ It enables the research related metadata more discoverable, inter-operable and re-usable in the scholarly communication ecosystem;
- ✓ It provides exposure for their research contributions to the international community and attract collaborator for the interdisciplinary research.



Organisation / Research Administrators

- ✓ It provides new insight to the research administrator about the research interests of faculty members, research focus of the departments and schools;
- ✓ It enables the administrator to build performance assessment report, research impact analysis; and
- ✓ Reduce the time to collect research related information often from the department or faculty for reporting and decision making .



Funding Agencies and Policy Makers

- ✓ Assisting Policy Maker and Funding Agencies by providing research related information, which includes NDL, NIRF, NAAC, CSIR, DST, UGC, and MHRD;
- ✓ Support to the funding agency and policy maker to identify experts for project proposal review and various committees.

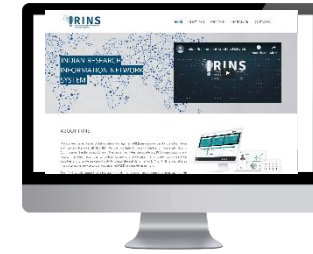
How to Join IRINS

Organisation having profiles in VIDWAN

(<https://vidwan.inflibnet.ac.in>)

1. Update the existing profile in the VIDWAN;
2. Send API key, preferable domain name, organisation logo and nodal officer details to kannan.p@cup.edu.in / siva@inflibnet.ac.in ; and
3. Send request to team IRINS for creating IRINS Instance

New IRINS Instance



1. Register as Nodal officer in VIDWAN
2. Collect the basic profile information of faculty members in the prescribed format and submit to kannan.p@cup.edu.in / siva@inflibnet.ac.in ;
3. Send API key, preferable domain name, organisation logo and nodal officer details; and
4. Send request to team IRINS for creating IRINS Instance

IRINS Implementation

Institute of National Importance

IISC Bangalore

<http://iiscprofiles.irins.org>

IIT Madras

<http://iitm.irins.org>

IIT Delhi

<http://iitd.irins.org>

Central University

Pondicherry University

<http://pondiuni.irins.org>

Central University of Punjab

<http://cup.irins.org>

Central University of Tamil Nadu

<http://cutn.irins.org>

State University

Alagappa University

<http://alagappauniv.irins.org>

Delhi Technological University

<http://dtu.irins.org>

Punjab University

<http://pu.irins.org>

CSIR

CSIR-NAL

<http://nal.irins.org>

CSIR-NIIST

<http://niist.irins.org>

Others

KL University

<http://kluniversity.irins.org>

OP Jindal University

<http://opj.irins.org>

Future Development



Software

- ✓ Release as Open Source Software in 2019



Data Analytics

- ✓ Publications, Citations
- ✓ National and International Collaboration
- ✓ Contributions in Open Access and Closed Access Publications, etc



Faceted Search

- ✓ Faceted Search for the publication with various facets such as subject areas, department contributions, publication venue, etc.;
- ✓ Multi Institutional Search



Linked Data

- ✓ Research related information converted into open linked data and would be accessible through public API
- ✓ Integration with VIVO Ontology

THANKS

Kannan.p@cup.edu.in

<https://doi.org/10.25610/x923-gd97>

