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# RAIITH

<http://raiith.iith.ac.in>

# I I T H – Institutional Repository

K Siva Shankar

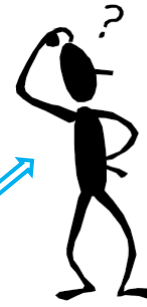
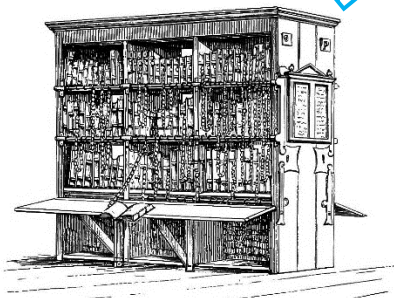


Indian Institute of Technology  
Hyderabad

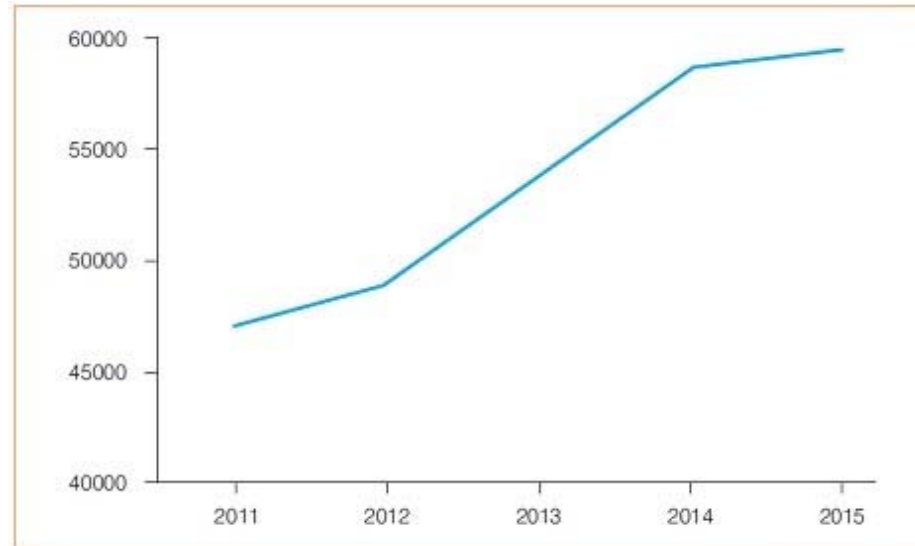
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Image source: <https://images.google.com/>



## Closed access to open access :



Source : Web of Science, InCites



*“The total number of expressions [citations] is about the most objective measure there is of the material's importance to current research.”*

– Dr. Eugene Garfield



source: <https://images.google.com/>; Clarivate Analytics October 2016, New Delhi

## Institutional repositories :

*“a set of services that a university offers to the members of its community for the management and dissemination of digital materials created by the institution and its community members”*

*(Lynch, 2003)*

*“Institutional repositories are digital collections of the outputs created within a university or research institution.*

*(Enabling Open Scholarship)*

## Advantages :

- Opens up the outputs of the institute to the world.
- Maximises the visibility and impact of these outputs as a result.
- Collects and curates digital outputs.
- Facilitates the development and sharing of digital teaching materials and aids.
- Supports student endeavours, providing access to thesis and dissertations.



# RAIITH journey :



Image source: <https://images.google.com/>

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# Why Eprints only ? Why not the other one:

- Eprints is easy to set up: An installation script automates most of the installation processes
- Eprints is programmed by using the script language "Perl", that is low level but powerful.
- Possible to install Eprints on any computer that is running with GNU/Linux or UNIX operating system.
- Eprints allows to scan each of the metadata field types in the database by simple or advanced search. Any metadata field can be searched with fine granularity by SQL querying the database.
- Eprints is freely distributable and subject to the GNU General Public License.

## Advantages :

- Publication swiftness
- Cost
- Installation and customization
- Open access



Source: <https://www.oaforum.org/resources/tvtoolscomp.php>

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## IITH Home

## IITH Library

## RAIITH

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## Welcome to RAIITH

### News Events

- ...Institute events

### Other Services and links

- Blog
- IITHFinds
- OPAC
- List of Indian SCI journals
- List of open access databases

### Repository is indexed by

- OAlster
- Bielefeld Academic Search Engine
- Google Scholar

### What's New

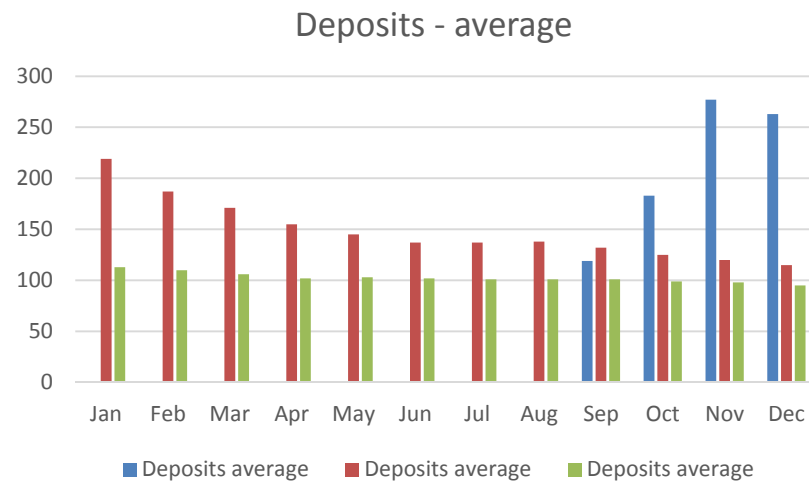
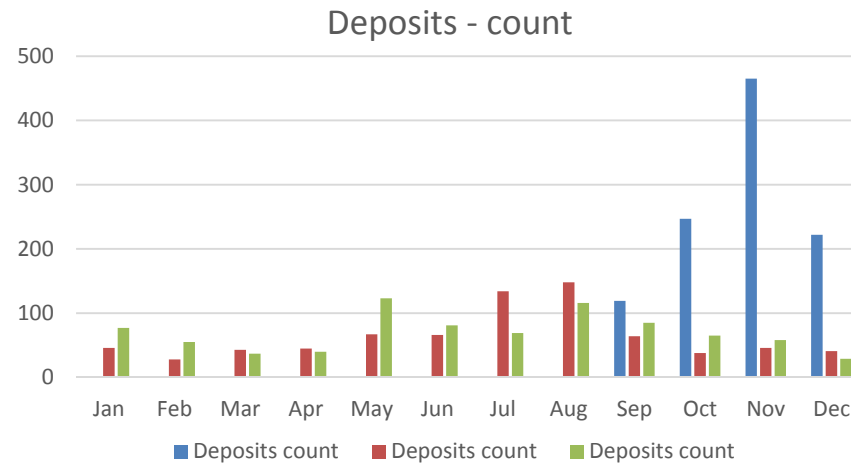
Machineni, L and Rajapantul, A and Nandamuri, V and Pawar, P D (2017) [Influence of Nutrient Availability and Quorum Sensing on the Formation of Metabolically Inactive Microcolonies Within](#)

1. [Structurally Heterogeneous Bacterial Biofilms: An Individual-Based 3D Cellular Automata Model.](#)

Bulletin of Mathematical Biology. ISSN 0092-8240 (In Press) Item not available from this repository.



# RAIITH a glance :

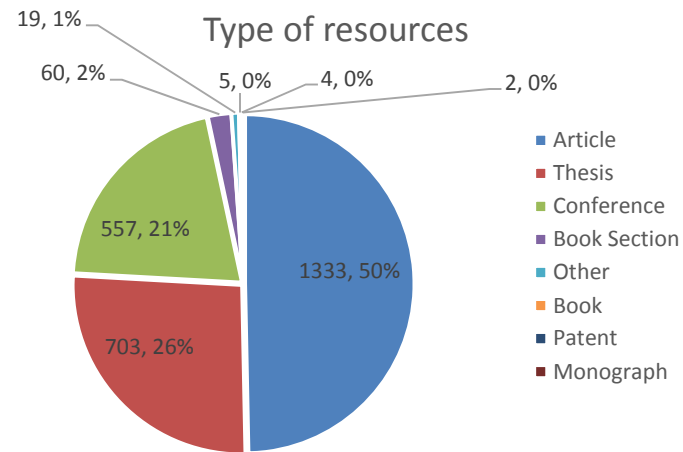




# RAIITH a glance :

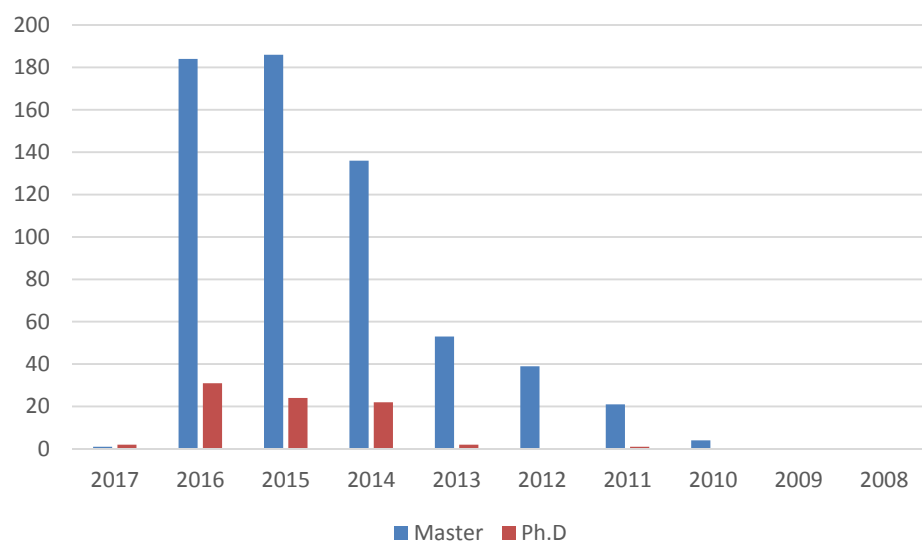
## Types of scholarly materials :

- Journal articles
- Conference papers
- Book chapters
- Monographs
- Dissertation/Thesis
- Non-traditional research outputs



# RAIITH a glance :

## Thesis :



Thesis		
	Master	Ph.D
2017	1	2
2016	184	31
2015	186	24
2014	136	22
2013	53	2
2012	39	0
2011	21	1
2010	4	0
2009	0	0
2008	0	0
<b>Total</b>	<b>623</b>	<b>80</b>



# RAIITH a glance :

## Visibility & access mechanism :

- Free access to author version pre-prints and open access articles.
- 'Request a copy' for Thesis.
- Encouraging self archiving.



PDF

EE11P1005.pdf - Submitted Version

Restricted to Registered users only until 1 February 2022.

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## Harvested by :



Image source: <https://images.google.com/>

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# RAIITH a glance :

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**BASE**  
Bielefeld Academic Search Engine

Mobile | A A A | English | Login

BASIC SEARCH | ADVANCED SEARCH | HELP | BROWSING | SEARCH HISTORY

**Your search**  
Structural, ferroelectric and piezoelectric properties of chemically processed, low temperature sintered piezoelectric BZT-BCT ceramics | Title  
 Boost open access documents

**Linguistics tools**  
 Verbatim search  
 Additional word forms  
 Multilingual synonyms

**Statistics**  
1 hits  
in 105,886,843 documents  
in 0.37 seconds

Home » Search: Structural, ferroelectric and piezoelectric properties of chemically processed, low temperature sintered piezoelectric BZT-BCT ceramics

**Hit List**

1. **Structural, ferroelectric and piezoelectric properties of chemically processed, low temperature sintered piezoelectric BZT-BCT ceramics**

**Title:** Structural, ferroelectric and piezoelectric properties of chemically processed, low temperature sintered piezoelectric BZT-BCT ceramics  
**Author:** Roy, S ; Maharana, R ; Reddy, S R ; Singh, S ; Kumar, P ; Karthik, T ; Asthana, S ; Prasad, V V B ; Kamat, S V  
**Description:** 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3TiO3) nanopowders were synthesized at very low temperature using a soft chemical approach. The synthesized powders and the consolidated disks were structurally characterized thoroughly by XRD, SEM, TEM and EPMA and also by ultraviolet and Raman spectroscopy. The 1350 °C sintered BZT-BCT disk displayed the highest density, underwent diffused phase transition centered at ~100 °C and showed the highest dielectric constant (8917) and lowest dielectric loss (0.015). The sintered BZT-BCT sample with the highest density showed a maximum polarization (P max) of 13 µC cm-2 and remnant polarization of 6 µC cm-2. The same sample exhibited very high electrostrain of ~0.12% under a relatively low electrical field of 3.5 kV mm-1. [Minimize](#)

**Publisher:** IOP Publishing  
**Year of Publication:** 2016  
**Document Type:** Article ; PeerReviewed  
**Subjects:** Physics ; Materials engineering  
**Relations:** Roy, S and Maharana, R and Reddy, S R and Singh, S and Kumar, P and Karthik, T and Asthana, S and Prasad, V V B and Kamat, S V (2016) Structural, ferroelectric and piezoelectric properties of chemically processed, low temperature sintered piezoelectric BZT-BCT ceramics. Materials Research Express, 3 (3). ISSN ...  
**URL:** <http://raiiith.iitb.ac.in/2296/>  
<http://dx.doi.org/10.1088/2053-1591/3/3/035702>  
**Content Provider:** [Research Archive of Indian Institute of Technology, Hyderabad \(RAIITH\)](#)

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# RAIITH a glance :

## What about copyright ?



Journal:	<a href="#">Journal of Applied Polymer Science</a> (ISSN: 0021-8995, EISSN: 1097-4628)
RoMEO:	This is a <b>RoMEO yellow</b> journal
Paid OA:	A paid open access option is available for this journal.
Author's Pre-print:	✓ author can archive pre-print (ie pre-refereeing)
Author's Post-print:	✓ subject to Restrictions below, author can archive post-print (ie final draft post-refereeing)
Restrictions:	<ul style="list-style-type: none"><li>12 months embargo</li></ul>
Publisher's Version/PDF:	✗ author cannot archive publisher's version/PDF
General Conditions:	<ul style="list-style-type: none"><li>Some journals have separate policies, please check with each journal directly</li><li>On author's personal website, institutional repositories, arXiv, AgEcon, PhilPapers, PubMed Central, RePEc or Social Science Research Network</li><li>Author's pre-print may not be updated with Publisher's Version/PDF</li><li>Author's pre-print must acknowledge acceptance for publication</li><li>Non-Commercial</li><li>Publisher's version/PDF cannot be used</li><li>Publisher source must be acknowledged with citation</li><li>Must link to publisher version with set statement (see policy)</li><li>If OnlineOpen is available, BBSRC, EPSRC, MRC, NERC and STFC authors, may self-archive after 12 months</li><li>If OnlineOpen is available, AHRC and ESRC authors, may self-archive after 24 months</li></ul>
Mandated OA:	(Awaiting information)
Paid Open Access:	<a href="#">OnlineOpen</a>
Notes:	<ul style="list-style-type: none"><li>Publisher last contacted on 07/08/2014</li></ul>
Copyright:	<a href="#">Self-archiving - Authors Compliance Tool</a> - <a href="#">Funder Policies</a>
Updated:	11-Aug-2014 - <a href="#">Suggest an update for this record</a>
Link to this page:	<a href="http://www.sherpa.ac.uk/romeo/issn/0021-8995/">http://www.sherpa.ac.uk/romeo/issn/0021-8995/</a>
Published by:	Wiley: 12 months <a href="#">[Commercial Publisher]</a> - <a href="#">Yellow Policies in RoMEO</a>
For:	Wiley Periodicals <a href="#">[Imprint]</a>
Guidance:	Please see the list of <a href="#">Publisher Categories in RoMEO</a> for guidance on interpreting the priority of multiple publishers.

**RAIITH**  
(Research Archive of Indian Institute of Technology Hyderabad)

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**Three-dimensional electrospun micropatterned cellulose acetate nanofiber surfaces with tunable wettability**

Kakunuri, M and Wanasekara, N D and Sharma, C S and Khandelwal, M and Eichhorn, S J (2017) *Three-dimensional electrospun micropatterned cellulose acetate nanofiber surfaces with tunable wettability*. Journal of Applied Polymer Science, 134 (15). ISSN 0021-8995 (In Press)

Full text not available from this repository. ([Request a copy](#))

Abstract

Three-dimensional polymer nanofibrous mats with tunable wettability have been fabricated using a single step non-conductive template assisted electrospinning process. Cellulose acetate nanofibers are electrospun over a nylon mesh, which acts as the template. The as-deposited fiber mat is removed from this template to produce a free standing three-dimensional micropatterned nanofibrous mat. By simply varying the template mesh dimensions, the fraction of the air-liquid interface can be changed which allows control of the wetting mechanics. It is shown that the water contact angle can be varied from about 30° for a planar network to about 140° for a patterned mat implying a complete transition from hydrophilic to hydrophobic behavior. Furthermore, upon stretching the fiber mat loses its pattern irreversibly and reducing the contact angle from 140° to 110° with increasing stretching. © 2017 Wiley Periodicals, Inc. J. Appl. Polym. Sci. 2017, 134, 44709.

**Item Type:** Article

**Uncontrolled Keywords:** electrospinning, hydrophobic fiber mat, patterned nanofabric, template assisted patterning

**Subjects:** [Materials Engineering > Materials engineering](#)  
[Chemical Engineering > Chemical engineering](#)

**Divisions:** [Department of Chemical Engineering](#)  
[Department of Material Science Engineering](#)

**Depositing User:** Team Library

**Date Deposited:** 30 Jan 2017 10:36

**Last Modified:** 30 Jan 2017 10:36

**URI:** <http://raith.iith.ac.in/id/eprint/3016>

**Publisher URL:** <http://dx.doi.org/10.1002/app.44709>

**OA policy:** <http://www.sherpa.ac.uk/romeo/issn/0021-8995/>

RSS 1.0  
RSS 2.0  
Atom



Image source: <http://www.sherpa.ac.uk/romeo/index.php>

# RAIITH a glance :

Additional plugin tools used:



**Altmetrics** are non-traditional metrics proposed as an alternative to more traditional citation impact metrics, such as impact factor and h-index.

First Measurement of Electron Neutrino Appearance in NOvA  
Overview of attention for article published in Physical Review Letters, April 2016

**102**

ABOUT THIS ATTENTION SCORE  
In the top 5% of all research outputs scored by Altmeter.

MENTIONED BY  
11 news outlets  
2 blogs  
19 tweeters  
1 Facebook page  
1 Google+ user

READERS ON  
19 Mendeley

**SUMMARY** News Blogs Twitter Facebook Google+

Title: First Measurement of Electron Neutrino Appearance in NOvA  
Published in: Physical Review Letters, April 2016  
DOI: 10.1103/PhysRevLett.116.151806  
PubMed ID: 27127961  
Authors: P. Adamson, C. Adre, M. Andreis, N. Arifmouq, L. Augheli, K. Aris, E. Arrieta Diaz, A. Aurisano, D. [Show]  
Abstract: We report results from the first search for  $\nu_{\mu} \rightarrow \nu_{e}$  transitions by the NOvA experiment. In an... [Show]

ATTENTION SCORE IN CONTEXT  
This research output has an Altmeter Attention Score of 102. This is our high-level measure of the quality and quantity of online attention that it has received. This Attention Score, as well as the ranking and number of research outputs shown below, was calculated when the research output was last mentioned on 14 September 2016.

ALL RESEARCH OUTPUTS	OUTPUTS FROM PHYSICAL REVIEW LETTERS	OUTPUTS OF SIMILAR AGE	OUTPUTS OF SIMILAR AGE FROM PHYSICAL REVIEW LETTERS
#57,032 of 6,756,570 outputs	#181 of 14,839 outputs	#5,074 of 311,592 outputs	#19 of 425 outputs

Altmeter has tracked 6,756,570 research outputs across all sources so far. Compared to these this one has done particularly well and is in the 99th percentile: it's in the top 5% of all research outputs ever tracked by Altmeter.

**Altmeter**

- Tweeted by 19
- Blogged by 2
- Mentioned in 1 Google+ posts
- Picked up by 11 news outlets
- On 1 Facebook pages
- 19 readers on Mendeley
- 0 readers on Connotea
- 0 readers on CiteULike

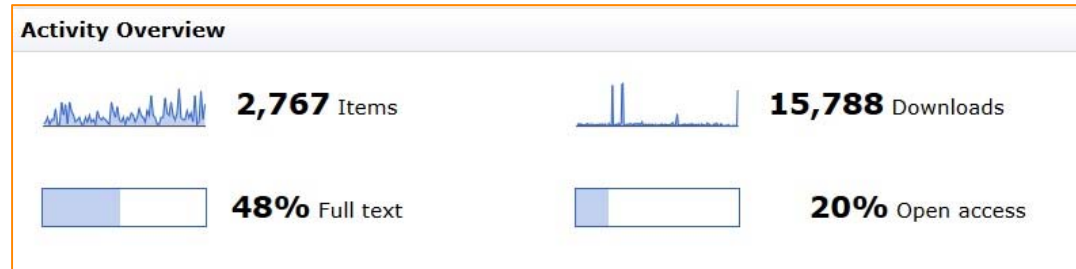
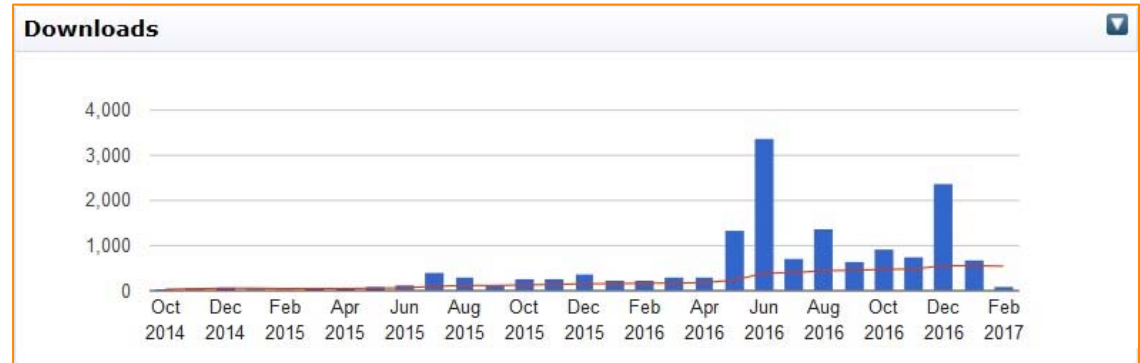


# RAIITH a glance :

Additional plugin tools used:



***IRStats** is a flexible statistics package which allows easy processing of accesses to fulltext documents of eprints.*



# RAIITH a glance

## Benefits of contributing :

- Your research is more visible with additional material provided by you.
- All your publications are accessible from one stop shop and save your time.
- Increases your research impact and H-index, making it easy for people to discover and cite your work.
- Open access publications can be more cited and have greater impact.
- You can also cite dissertation/thesis guided by you and your student's works.





## Conclusion :

- Building open scholarly repositories and exclusively individual institutional repositories are necessary for the Institute's and their own research visibility.
- IR's support and enhance the idea of rebuilding trust between the Library and the users and they feel that the IR will be the vehicle.
- If we can create more institutional repositories which are interoperable it will be platform for research collaboration among internationally distributed IRs.
- Eprints is one among the open source Digital repository software's to build institutional repositories.



Thank you

