



RESEARCH
ECOSYSTEMS

euroCRIS
Current Research Information Systems

“More Than CRIS: GCRIS”

Prof. Dr. Tugkan Tuglular

Izmir Institute of Technology

Co-Founder & CEO of Research Ecosystems

Why traditional CRIS failing?



RESEARCH
ECOSYSTEMS



Passive Storage



Data Silos



Manual Workload



Visibility Problem



Strategic Gap

Why Open Access is Necessary?



RESEARCH
ECOSYSTEMS

Leading the Race

Visibility

Integration with the World

Higher Citation

Performance Increase

Challenges Faced

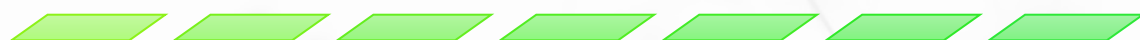


RESEARCH
ECOSYSTEMS

Long-term storage of scientific outputs



Enabling worldwide access and utilization



Monitoring performance



Making strategic decisions



Key Solution: GCRIS

We reduce data entry burden by 90%!

Why DSpace 7?



RESEARCH
ECOSYSTEMS

The most stable version of DSpace software

A completely new UX

A powerful REST API

Improved search box

Configurable entities feature

GDPR compliance

Community Support for DSpace Versions 5 and 6 has Ended!

Our GCRIS Product Family



RESEARCH
ECOSYSTEMS



GCRIS
Premium

Widening Your Research



GCRIS
Standard

Widening Your Research



GCRIS
Basic

Widening Your Research

info@researchecosystems.com
www.researchecosystems.com

GCRIS Solutions Tailored to University Requirements



RESEARCH
ECOSYSTEMS

GCRIS Premium

- DSpace 7.6.2
- Automated Update
- User-Friendly Interface
- Detailed Researcher Information
- Detailed Organization Information
- Advanced Filtering Options
- Dashboard Module

GCRIS Standard

- DSpace 7.6.2
- Automated Update
- User-Friendly Interface
- Brief Researcher Information
- Brief Organization Information
- Advanced Filtering Options

GCRIS Basic

- Dspace 9
- Automated Update
- Maintenance Services

GCRIS Premium



RESEARCH
ECOSYSTEMS

[Home](#) [Communities](#) [Entities](#) [Browse GCRIS](#) [Statistics](#) [Overview](#) [GCRIS Guide](#)

IZTECH GCRIS Premium Database

The scientific memory of Izmir Institute of Technology. Publications, projects, and researchers—all in one place. The heart of open science beats here. 'Open Science. Visible Impact.'

Search the repository ...

Search

Scholarly Output
11769



Organisations
31



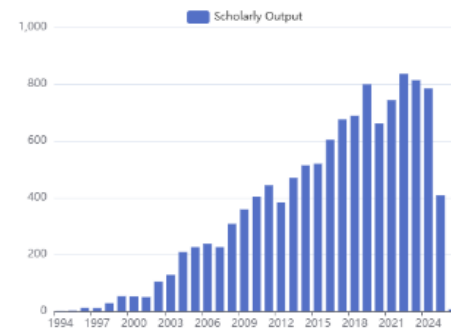
Current
Researchers
326



Projects
1352



Scholarly Output



WoS Citation Counts

WoS
■ Demir, Durmuş Ali ■ Şahin, Hasan ■ Baran, Yusuf
■ Demir, Mustafa Muammer



Scholarly Output Distribution

■ Article ■ Theses ■ Conference Proceedings ■ Other ■ Books



WoS Journal Distribution

WoS
■ Q1 ■ Q2 ■ Q3 ■ Q4



GCRIS Premium



RESEARCH
ECOSYSTEMS

Researcher Page

- Researcher information
- Scopus-WoS-Google Scholar band
- Extensive bibliometric data
- SDG report
- Institutional information
- About the researcher

Organization Page

- Publications affiliated to the unit
- Extensive bibliometric data
- SDG report
- Scholarly output graph
- Q scatter plot
- Competence cloud

Publication Page

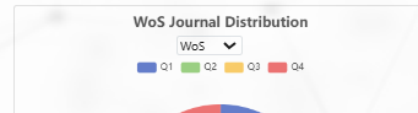
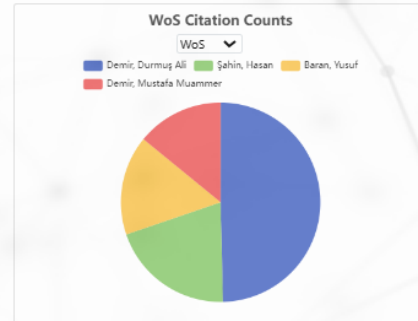
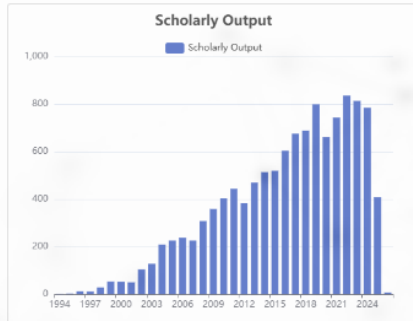
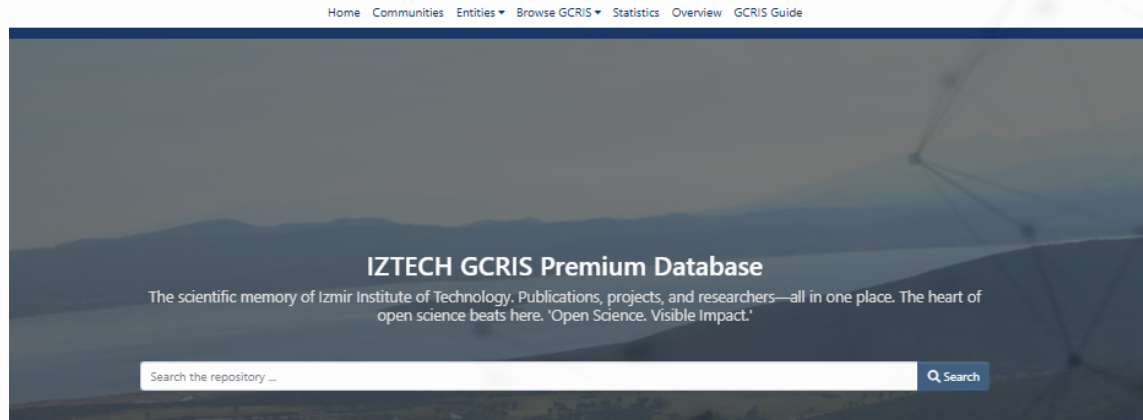
- SDG information
- Core recommendations
- Scopus-Wos citation count
- Number of downloads and views
- Altmetric
- Google Scholar link

GCRIS Differentiating Features



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Informative Interface



DSpace Komüniteler ve Koleksiyonlar Tümü İstatistik

DSpace 7

DSpace is the world leading open source repository platform that enables organisations to:

- easily ingest documents, audio, video, datasets and their corresponding Dublin Core metadata
- open up this content to local and global audiences, thanks to the OAI-PMH interface and Google Scholar optimizations
- issue permanent urls and trustworthy identifiers, including optional integrations with handle.net and DataCite DOI

Join an international community of [leading institutions using DSpace](#).

The test user accounts below have their password set to the name of this software in lowercase.

- Demo Site Administrator = [dspace demo+admin@gmail.com](#)
- Demo Community Administrator = [dspace demo+commadmin@gmail.com](#)
- Demo Collection Administrator = [dspace demo+colladmin@gmail.com](#)
- Demo Submitter = [dspace demo+submit@gmail.com](#)

Depoda ara ...

Ara

Dspace'deki Komüniteler

Koleksiyonlarına göz atmak için bir komünite seçin.

Şimdi gösteriliyor 1 - 5 / 42

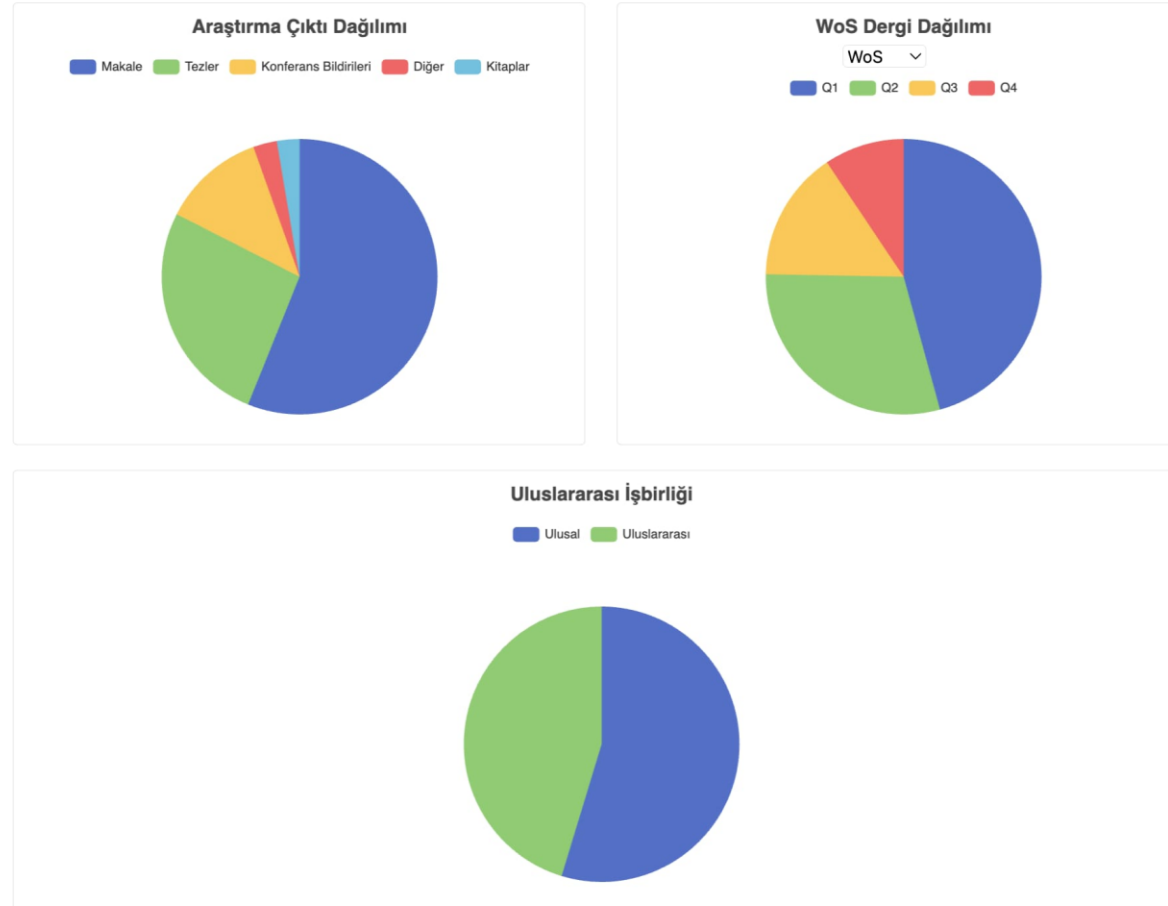
Al wasl university 0

BlockRuster 0

Benim dale filme de la hasee dadas dienonihla a BlockRuster

GCRIS Differentiating Features

International Collaboration Chart Exclusive to GCRIS Premium



GCRIS Differentiating Features

Detailed Researcher Information

Anasayfa • 12. Araştırmacılar • Araştırmacılar • Tuğlular, Tuğkan

← Sonuçlara Geri Dön

Tuğlular, Tuğkan



İsim Varyantları

Tuğlular, T.
Tuğlular, T.
Tuğlular, Tuğkan
Tuğlular, T.
Tuğlular, T.

E-posta Adresi

tugkantuglular@iyte.edu.tr
tugkantuglular@gmail.com

Ana Birim

03.04. Department of Computer Engineering
03. Faculty of Engineering
01. Izmir Institute of Technology

Durum

Aktif Personel

Web Sitesi

http://web.iyte.edu.tr/~tugkantuglular/

ORCID ID

0000-0001-6797-3913

Scopus Yazar ID

14627984700

YÖK Profil ID

https://akademik.yok.gov.tr/AkademikArama/AkademisyenGorevOgrenimBilgileri?islem=direct&authorid=159632ED49A58783

Google Scholar ID

https://scholar.google.com/citations?user=5FyBmLKAAAAJ&hl=en

WoS Yazar ID

AAI-8008-2020

Tam öge sayısı

Biyografi

Sürdürülebilir Kalkınma Hedefleri



← Back to Results

Kişi:

İş Adı

Soyad

Ad

Name

Tam öge sayısı



Filtreler

Yazar +

Dosyalara Sahip +

Materyal Türü +

Filtreleri Sıfırla

All of DSpace Search the repository ...

Q Ara

search.filters.applied.4.isAuthorOfPublication: e5ce9a6b-30df-4c37-b6a0-b170db44052c x

Search Results

Şimdi gösteriliyor 1 - 1 / 1



Yayın Metadata only

An evaluation of computerized adaptive testing for general psychological distress: combining GHQ-12 and Affectometer-2 in an item bank for public mental health research

(BioMed Central, 20/05/16) Böhnke, Jan R; Stochl, Jan; Pickett, Kate

✓ Show more

GCRIS Differentiating Features



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Advanced Filtering Options

Home Communities Entities Browse GCRIS Overview GCRIS Guide

Home Search

All of GCRIS Search the repository ... Search

Search Results

Now showing 51 - 60 of 14242

Filters

Author +

Subject +

Date +

Has files +

Item Type +

Type +

COAR Resource Type +

Language +

Access Right +

COAR Access Rights +

Reset filters

Master Thesis

Bilayer Chitosan/Zein Based Nanofibers for Antimicrobial Wound Dressing Application
(01. Izmir Institute of Technology, 2021-12) İskeçman, Nilsu; Tihminkoğlu, Funda
Nowadays, modern functional wound dressings have become prominence due to their biocompatible, biodegradable, and non-toxic nature and ability to mimic ECM of skin. To enhance their mechanical and prolonged cumulative release of drugs in med
Show more

Article Citation - WoS: 8 Citation - Scopus: 6

Assessment of Melt Cleanliness of Secondary 5000 Aluminum Alloy Via Non-Metallic Inclusions Characterization
(Springer, 2023) Li, Cong; Dang, Thien; Huang, Jinxian; Huang, Chunfa; Li, Jiang
The extensive energy consumption of primary aluminum production stimulates increasing need of producing primary-quality alloys with secondary sources, during which process amount of non-metallic inclusions (NMIs) in the alloy must be strictly controlled
Show more

Article Citation - WoS: 11 Citation - Scopus: 11

Comparison of Uniform and Non-Uniform Pressure Approaches Used To Analyze an Adsorption Process in a Closed Type Adsorbent Bed
(Springer Verlag, 2013) Gediz İlig, Gamze; Mobedi, Moghtada; Ülkü, Semra; Özlü, H. S.
Heat and mass transfer in an annular adsorbent bed filled with silica gel particles is numerically analyzed by uniform and non-uniform pressure approaches. The study is performed for silica gel-water pair, particle radius from 0.025 to 1 mm and two different inlet conditions
Show more

Conference Object

Locoregional Treatment Improves Survival in De Novo Bone-Only Metastatic Breast Cancer: Long-Term Results of the Prospective, Multi-Institutional Study - Protocol Bomet Mf14-01
(Springer, 2023) Soran, Atilla; Doğan, Lütfi; Işık, Arda; Özbağ, Serdar; Can Trabulsi, Rami
[No abstract available]
Show more

Settings

Sort By

Most Relevant

DSpace Komüniteler ve Koleksiyonlar Tümü Giriş yap

Anasayfa Ara

All of DSpace Search the repository ... Ara

Öğe Türü Publication

Sonuçları Ara

Şimdi gösteriliyor 1 - 10 / 264

Filtreler

Yazar +

Konu +

Tarih +

Dosyalara Sahip +

Materyal Türü -

Publication

Filtreleri Sıfırla

Ayarlar

Göre Sıralanış

Accessioned Date Desc

Sayfa Sonuçları

10

No Thumbnail Available

Yayın Open Access

Why College Opticians are Declining (2024)

Yayın Open Access

Repository Review: Innovations and Best Practices (DCAT, 2024-08-19) Jon, Genny; Kipphut-Smith, Shannon; Lukens, Colin
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras nec tortor molestie, rutrum massa in, elementum urna. Donec ut lacinia erat. Cras efficitur finibus dolor, in auctor massa. Aliquam vitae porta orci. Etiam aliquet purus nec est fringilla tincidunt
Show more

Yayın Open Access

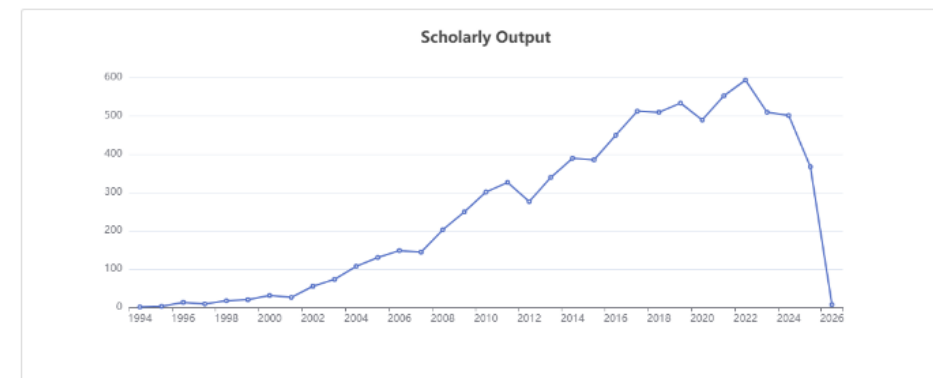
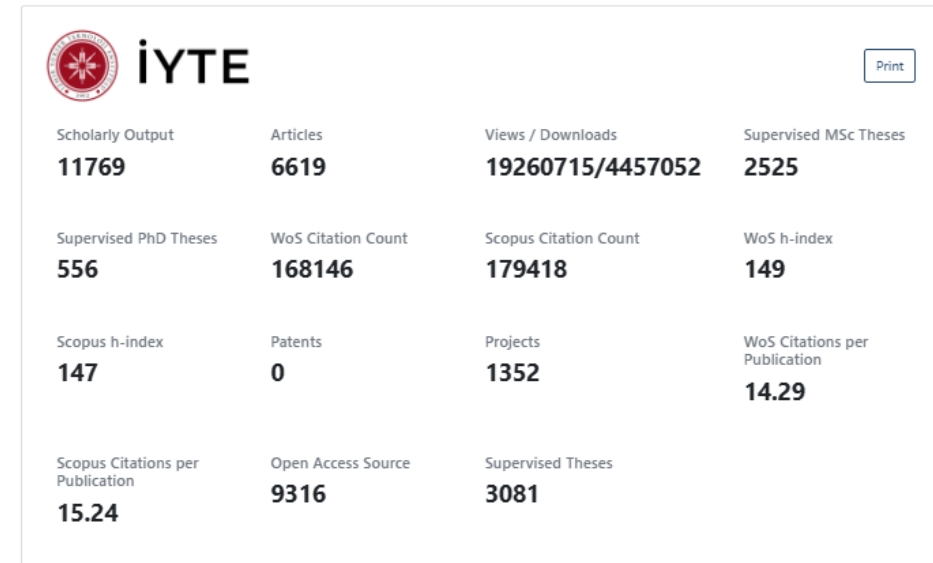
ETDs in the repository: a case study for collecting all student works (DSpace Community Advisory Team (DCAT), 2024-09-18) Smith, Susan
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras nec tortor molestie, rutrum massa in, elementum urna. Donec ut lacinia erat. Cras efficitur finibus dolor, in auctor massa. Aliquam vitae porta orci. Etiam aliquet purus nec est fringilla tincidunt
Show more

Yayın Open Access

Open Dialogue: Advances in Scholarly Communication (DSpace Community Advisory Team (DCAT), 2024-10-01) Johnson, Jennifer; B. Johnson, Jennifer
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras nec tortor molestie, rutrum massa in, elementum urna. Donec ut lacinia erat. Cras efficitur finibus dolor, in auctor massa. Aliquam vitae porta orci. Etiam aliquet purus nec est fringilla tincidunt
Show more

GCRIS Differentiating Features

Detailed Organization Information



RESEARCH
ECOSYSTEMS

Home • 02. Fen Fakültesi / Faculty ... • Molecular Biology and Ge... • Flow Cytometry: Basic Prin...

Flow Cytometry: Basic Principles and Applications

Files

6337.pdf (3.32 MB)

Date

2017-02

Authors

Adan, Aysun
Alizada, Günel
Kiraz, Yağmur
Baran, Yusuf
Nalbant, Ayten

Publisher

Taylor and Francis Ltd.

Open Access Color

BRONZE

Green Open Access

Yes

Publicly Funded

No

Organizational Units

- Department**
04.03. Department of Molecular Biology and Genetics
- Faculty**
04. Faculty of Science
- Institution**
01. Izmir Institute of Technology

SCOPUS™ Citations
670
checked on Oct 03, 2025

Web of Science™ Citations
592
checked on Oct 03, 2025

Page Views
53867
checked on Oct 03, 2025

Downloads
42945
checked on Oct 03, 2025

Google Scholar™ Check

OpenAlex FWCI
4.396

BIP! Indicators

Impulse	Top 0.1%
Influence	Top 1%
Popularity	Top 0.1%

Abstract

Flow cytometry is a sophisticated instrument measuring multiple physical characteristics of a single cell such as size and granularity simultaneously as the cell flows in suspension through a measuring device. Its working depends on the light scattering features of the cells under investigation, which may be derived from dyes or monoclonal antibodies targeting either extracellular molecules located on the surface or intracellular molecules inside the cell. This approach makes flow cytometry a powerful tool for detailed analysis of complex populations in a short period of time. This review covers the general principles and selected applications of flow cytometry such as immunophenotyping of peripheral blood cells, analysis of apoptosis and detection of cytokines. Additionally, this report provides a basic understanding of flow cytometry technology essential for all users as well as the methods used to analyze and interpret the data. Moreover, recent progresses in flow cytometry have been discussed in order to give an opinion about the future importance of this technology.

ORCID

0000-0003-0266-8306

0000-0003-0266-8306

Keywords

Apoptosis, Flow Cytometer, Fluorescence, Immunophenotyping, Light Scattering, Static Electricity, Light scattering, Humans, Apoptosis, Flow cytometer, Flow Cytometry, Fluorescence, Immunophenotyping

Fields of Science

0301 basic medicine, 0303 health sciences, 03 medical and health sciences

Citation

Adan, A., Alizada, G., Kiraz, Y., Baran, Y., and Nalbant, A.(2017). Flow cytometry: basic principles and applications. Critical Reviews in Biotechnology, 37(2), 163-176. doi:10.3109/07388551.2015.1128876

WoS Q

Q1

Scopus Q

Q1

OpenCitations Citation Count

641

Altmetrics

- Posted by 3 X users
- Picked up by 1 news outlets
- 14 Unique User Counts
- 1 readers on CiteULike
- 3077 readers on Mendeley

[See more details](#)

GCRIS Differentiating Features



Some Features Exclusive to GCRIS Premium



İYTE

Scholarly Output

11769

Supervised PhD Theses

556

Scopus h-index

147

Scopus Citations per Publication

15.24

Articles

6619

WoS Citation Count

168146

Patents

0

Open Access Source

9316

Views / Downloads

19260715/4457052

Supervised MSc Theses

2525

Scopus Citation Count

179418

Projects

1352

Supervised Theses

3081

Supervised MSc Theses

2525

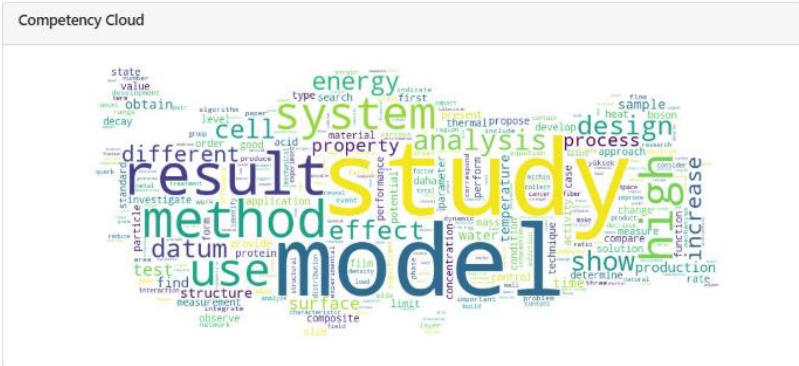
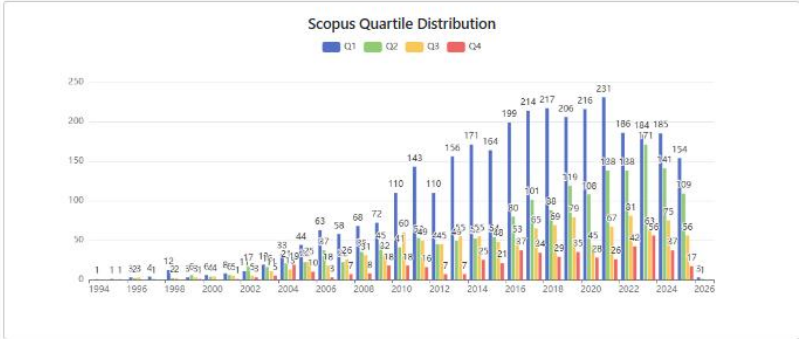
WoS h-index

149

WoS Citations per Publication

14.29

Print

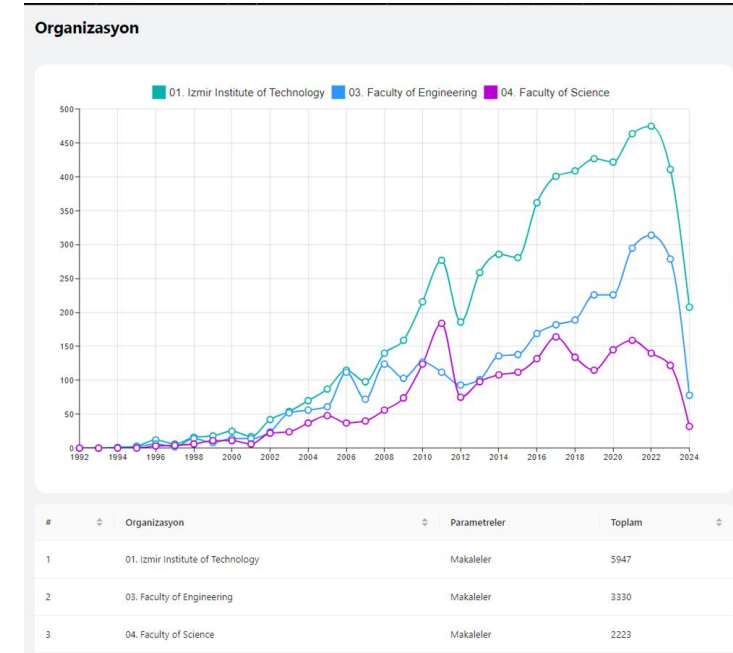


GCRIS Differentiating Features

Dashboard Module Exclusive to GCRIS Premium

Home You can view publication summaries and statistics here.	
Statistics	Count
Open Access Publication Count	9316
Scopus Bibliographic Publication Count	7465
WoS Bibliographic Publication Count	7156
Scopus Full Text Publication Count	5623
WoS Full Text Publication Count	5369
PubMed Bibliographic Publication Count	1423
PubMed Full Text Publication Count	1033
TrDizin Bibliographic Publication Count	796
TrDizin Full Text Publication Count	680

Organization							
Dashboard Reports of Organizations							
You can review and export organization reports based on the selected year range.							
#	UUID	Name	Supervised MSc Theses	Supervised PhD Theses	Projects	Articles	
13	9af2b05f-28ac-4003-8abe-a4dfe192da5e	01. Izmir Institute of Technology	2525	556	1352	6612	-
7	9af2b05f-28ac-4004-8abe-a4dfe192da5e	03. Faculty of Engineering	1327	277	688	2947	-
4	9af2b05f-28ac-4005-8abe-a4dfe193da5e	04. Faculty of Science	711	153	507	1873	-
6	9af2b05f-28ac-4021-8abe-a4dfe192da5e	03.02. Department of Chemical Engineering	241	61	172	552	-
10	9af2b05f-28ac-4009-8abe-a4dfe192da5e	04.05. Department of Physics	162	33	123	535	-
25	9af2b05f-28ac-4022-8abe-a4dfe192da5e	03.10. Department of Mechanical Engineering	337	58	91	504	-
24	9af2b05f-28ac-4006-8abe-a4dfe194da5e	02. Faculty of Architecture	472	140	79	470	-
18	9af2b05f-28ac-4013-8abe-a4dfe192da5e	04.03. Department of Molecular Biology and Genetics	207	37	179	462	-
16	9af2b05f-28ac-4020-8abe-a4dfe192da5e	03.03. Department of Civil Engineering	110	21	54	402	-
9	9af2b05f-28ac-4019-8abe-a4dfe192da5e	03.08. Department of Food Engineering	148	39	136	398	-
3	9af2b05f-28ac-4011-8abe-a4dfe192da5e	04.01. Department of Chemistry	237	46	150	392	-
26	9af2b05f-28ac-4012-8abe-a4dfe192da5e	04.02. Department of Mathematics	88	30	30	332	-
17	9af2b05f-28ac-4023-8abe-a4dfe192da5e	03.09. Department of Materials Science and Engineering	88	26	62	328	-



GCRIS Differentiating Features

Data Transfer from Reliable Sources

**Web of
Science**

Scopus

GCRIS Differentiating Features

System Integrations

OpenAIRE

Plumx

Altmetrics

COAR

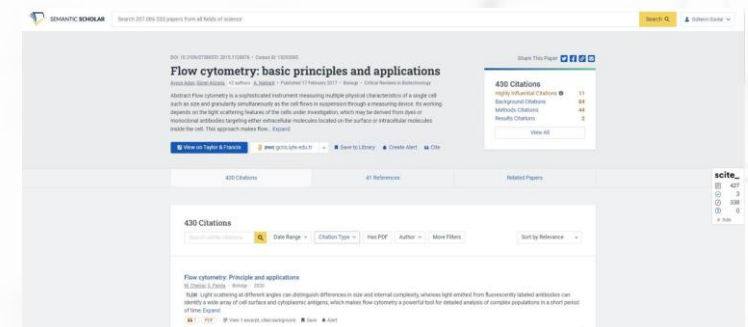
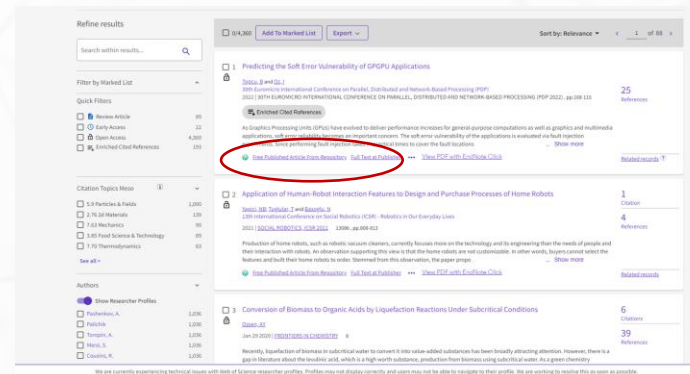
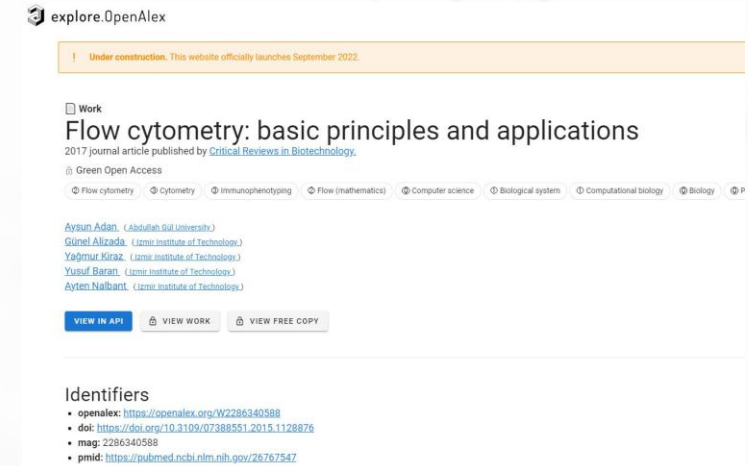
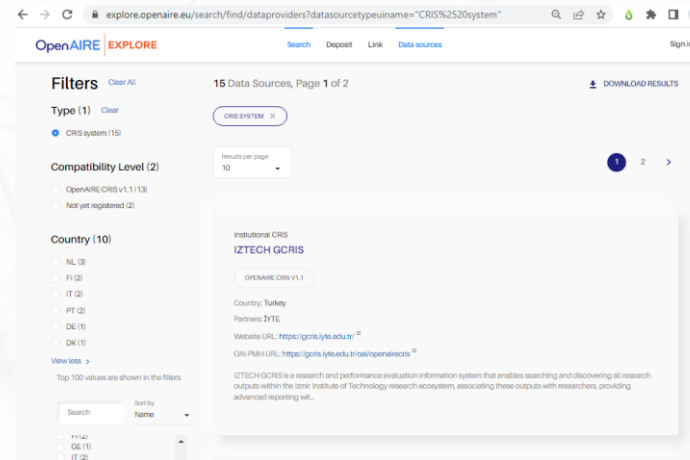
Sobiad

OpenCitations

GCRIS Differentiating Features



- Visibility in many important databases such as OpenAIRE, OpenAlex, Semantic Scholar



GCRIS Differentiating Features



GCRIS Chatbot

GCRIS Differentiating Features



GCRIS Chatbot

GCRIS

Tuğkan Tuğlular is a faculty member in the Department of Computer Engineering. Here are some details about him:

- **Email:** tugkantuglular@gmail.com
- **Total Outputs:** 106
- **Total Articles:** 21
- **Open Access Outputs:** 93
- **Total Patents:** 1
- **Masters Theses Supervised:** 35
- **PhD Theses Supervised:** 2
- **Scopus Citations:** 222
- **WoS Citations:** 130

User

Give information about Tuğkan Tuğlular.

12:04 PM

User

Are highly cited publications mostly from Q1 journals?

11:32 AM

GCRIS

Highly cited publications are often found in Q1 journals, which are in the top quartile based on impact factor or other metrics. These journals typically have a wider readership and greater visibility, contributing to higher citation rates. However, it's important to note that highly cited papers can also come from Q2, Q3, or even Q4 journals, especially if the research is groundbreaking or particularly relevant to a specific field.

In summary, while there is a strong correlation between high citation counts and Q1 journals, it is not exclusive, and many factors influence citation rates beyond the journal's ranking.

11:32 AM

GCRIS Differentiating Features



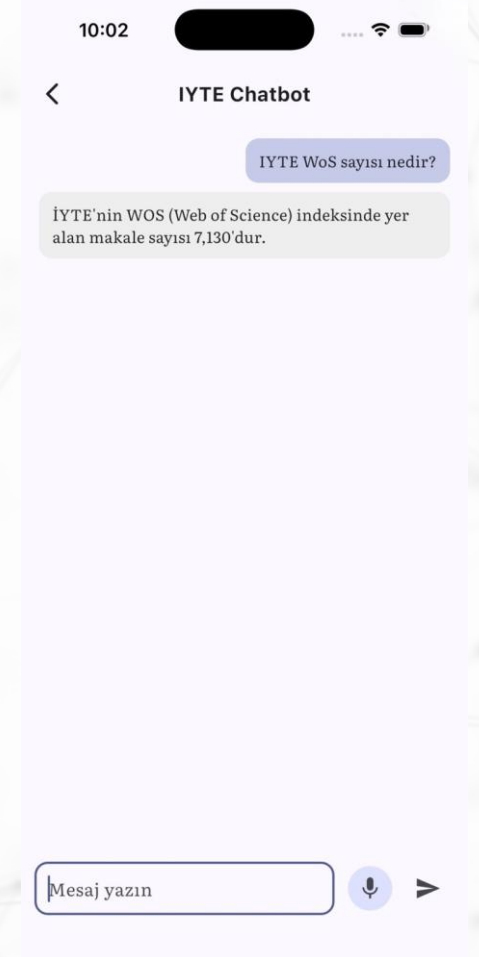
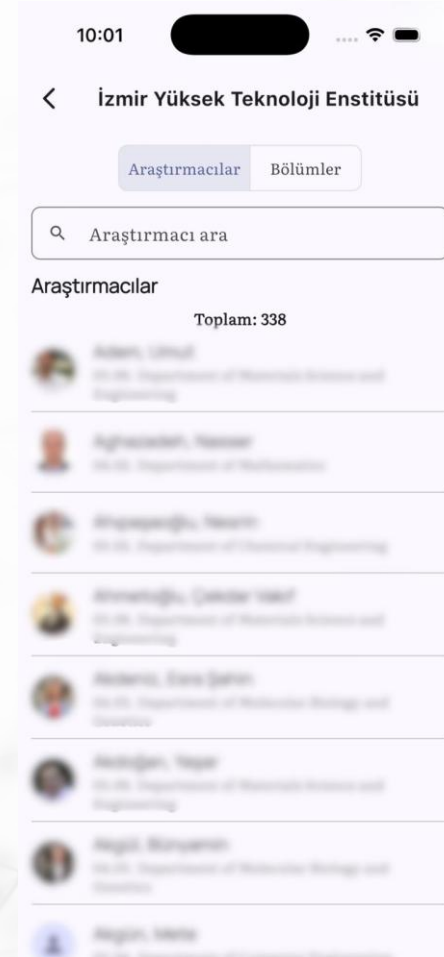
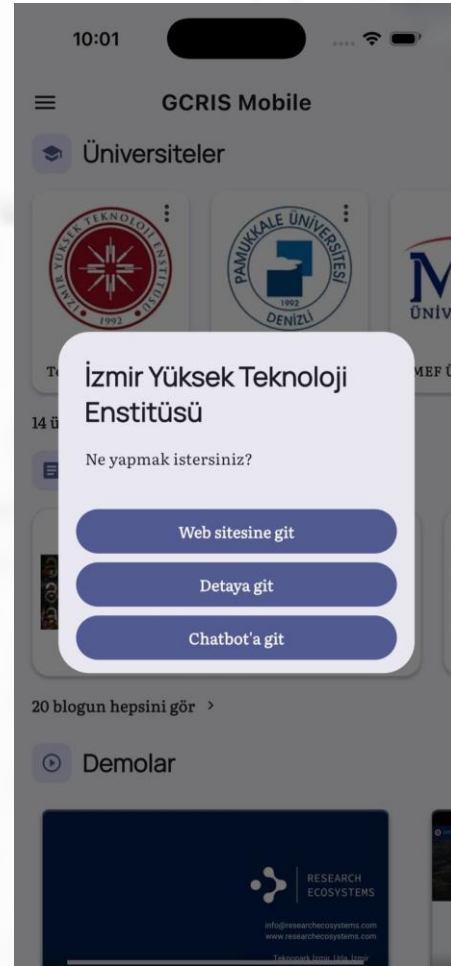
GCRIS Mobile

GCRIS Differentiating Features



RESEARCH
ECOSYSTEMS

GCRIS Mobile



GCRIS Principal Areas of Excellence



RESEARCH
ECOSYSTEMS

Single Platform

Automation & Quality

Strategic Decision Support

Global Visibility

Instant & Smart
Access



THANK YOU!



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RESEARCH
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Teknopark İzmir, Urla, İzmir
+90 535 452 89 66

GCRIS Differentiating Features



Our System Integrations - WoS/Scopus

Ana Sayfa Komüniteler Varlıklar GCRIS'i Keşfet İstatistik Genel Bakış GCRIS Rehberi

Anasayfa • 02. Fen Fakültesi / Faculty ... • Physics / Fizik • Precise Mapping of the M...

Precise Mapping of the Magnetic Field in the Cms Barrel Yoke Using Cosmic Rays



Dosyalar

2527.pdf (693.84 KB)

Tarih

2010

Yazarlar

Demir, Durmuş Ali
Karapınar, Güler

Yayıncı

IOP Publishing Ltd.

Açık Erişim Rengi

BRONZE

Yeşil Açık Erişimli

Organizasyon Birimleri



Bölüm

04.05. Department of Physics



Kurum

01. Izmir Institute of Technology



Fakülte

04. Faculty of Science

SCOPUS™

Atrfları

56

kontrol edilme tarihi:
Sep 30, 2025

Web of Science™

Atrfları

56

kontrol edilme tarihi:
Sep 30, 2025

Sayfa

Görüntülemeleri

616

kontrol edilme tarihi:
Sep 30, 2025

İndirmeler

368

kontrol edilme tarihi:
Sep 30, 2025



Google Scholar™

Kontrol Et



OpenAlex

FWCI

7.388

Scopus*

Dokümanlar

11

Atrflar

440

h-indeks

6

Scopus profiline git

Clarivate

Dokümanlar

11

Atrflar

356

WoS profilini görüntüle



İYTE

Yazdır

Araştırma Çıktıları

26

Makaleler

9

Görüntüleme / İndirme Sayısı

32319/10426

Yönetilen Yüksek Lisans Tezleri

14

Yönetilen Doktora Tezleri

2

WoS Atıf Sayısı

336

Scopus Atıf Sayısı

407

WoS h-indeksi

3

Scopus h-indeksi

4

Patentler

0

Projeler

10

Yayın Başına WoS Atıf

12.92

Yayın Başına Scopus Atıf

15.65

Açık Erişim Kaynağı

24

Tez Danışmanlığı

16

Bağımsız Dergiler

-

GCRIS Differentiating Features

Our System Integrations - OpenAIRE (20 metadata)

Yayıncı

American Physical Society

Açık Erişim Rengi

HYBRID

Yeşil Açık Erişimli

Evet

OpenAIRE İndirmeleri

0

OpenAIRE Görüntülemeleri

1

Kamu Fonu

Hayır



Impulse	Top 1%
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and many more. The LHC design has been optimized for reconstruction of top quarks with high Lorentz boosts, where jet substructure techniques are used to enhance the sensitivity. Results are presented for all channels and a combination is performed. No significant excess of events relative to the expected yield from standard model processes is observed. Upper limits on the production cross section of heavy resonances decaying to $t\bar{t}$ are calculated. A narrow leptophobic topcolor Z' resonance with a mass below 2.4 TeV is excluded at 95% confidence level. Limits are also derived for a broad Z' resonance with a 10% width relative to the resonance mass, and a Kaluza-Klein excitation of the gluon in the Randall-Sundrum model. These are the most stringent limits to date on heavy resonances decaying into top-antitop quark pairs. © 2016 CERN, for the CMS Collaboration. Published by the American Physical Society under the terms of the <http://creativecommons.org/licenses/by/3.0/> Creative Commons Attribution 3.0 License. Further distribution of this work must maintain attribution to the author(s) and the published article's title, journal citation, and DOI.

Anahtar kelimeler

Large Hadron Collider (LHC), Compact Muon Solenoid, Kaluza-Klein excitations, Standard Model, Physics and Astronomy (miscellaneous), PP collisions, FOS: Physical sciences, Fizik, 530, TOPCOLOR, Pp Collisions, PARTICLE PHYSICS; LARGE HADRON COLLIDER; CMS, High Energy Physics - Experiment, High Energy Physics - Experiment (hep-ex), W Boson, Top-antitop quark pairs, Hadron-Hadron scattering (experiments), PLUS, STANDARD MODEL; CROSS-SECTIONS; TOP PRODUCTION; PP COLLISIONS; W BOSON; TOPCOLOR; JETS; LHC; HIERARCHY; PHYSICS, High energy physics, info:eu-repo/classification/ddc/530, High energy physics ; Experimental particle physics ; LHC ; CMS ; Standard Model, [Anahtar Kelime Yok], CMS, FISICA DELLE PARTICELLE, Physics, ddc:530, Top Production, 001, LARGE HADRON COLLIDER, HIERARCHY, Beyond Standard Model, TOP-PAIR, PARTICLE PHYSICS, Topcolor, LHC, Experimental particle physics, DECAY, Cross-Sections

Bilim Dalları

01 natural sciences, 0103 physical sciences, 0105 earth and related environmental sciences, 06 humanities and the arts, 0604 arts

Alıntı

Khachatryan, V., Sirunyan, A.M., Tumasyan, A., Adam, W., Asilar, E., Bergauer, T.,...CMS Collaboration (2016). Search for resonant $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 93(1).

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gdc.oaire.influence	7.4149304E-9
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gdc.oaire.keywords	Accelerator Physics (physics.acc-ph)
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gdc.oaire.keywords	Compact Muon Solenoid
gdc.oaire.keywords	Physics - Instrumentation and Detectors
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gdc.oaire.keywords	Large Hadron Collider (LHC)
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GCRIS Differentiating Features

Our System Integrations - Open Alex (4 metadata)

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Kamu Fonu

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Kurum

01. Izmir Institute of Technology



Fakülte

04. Faculty of Science



Sayfa
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relation.isAuthorOfPublication.latestForDiscovery	4f677df4-e9bc-49e4-bdc3-f0d3444d746b

Özet

The CMS detector is designed around a large 4 T superconducting solenoid, enclosed in a 12 000-tonne steel return yoke. A detailed map of the magnetic field is required for the accurate simulation and reconstruction of physics events in the CMS detector, not only in the inner tracking region inside the solenoid but also in the large and complex structure of the steel yoke, which is instrumented with muon chambers. Using a large sample of cosmic muon events collected by CMS in 2008, the field in the steel of the barrel yoke has been determined with a precision of 3 to 8% depending on the location.

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Alinti

Chatrchyan, S., Khachatryan, V., Sirunyan, A. M., Adam, W., Arnold, B., ...CMS Collaboration (2010). Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. Journal of Instrumentation, 5(3).
doi:10.1088/1748-0221/5/03/T03021

WoS Q

Q4

Scopus Q

Q3



OpenCitations Atıf Sayısı

22

Kaynak

Journal of Instrumentation

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Sayı

3