

CityU Scholars

香港城市大学 CRIS (在研信息系统) 的建设与服务

戴淑儿: 刘昭华

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Presenters

Alice Tai (戴淑儿)

Senior Assistant Librarian (高级助理馆长)

Head, Research Support & Scholarly Communication (研究支援及学术交流部主管)

Eliot LIU (刘昭华)

Assistant Librarian (助理馆长)

Research Support & Scholarly Communication (研究支援及学术交流部)

Run Run Shaw Library (邵逸夫图书馆)
City University of Hong (香港城市大学)

Agenda

- 香港城市大学与图书馆简介 (An Introduction to City University of Hong Kong (CityU) & the Library)
- CityU Scholars 香港城市大学CRIS的建设与服务 (The Development and Services of CityU Scholars)
 - 项目背景 (Project Background)
 - 项目发展 (Project Development)
 - 门户网站特点 (Portal Features)
 - 图书馆相关服务 (Related Library Services)
- 未来展望 (Way Ahead)

城市大学简介

• 位于香港九龙塘, 简称城大

• 大學教育資助委員會資助大學

• 学院:10/学系:30

商科		工科	Ŧ	里阜	学	法律
数据科学 创意如		媒体	人文社会科		文社会科	
动物医学及生命科学			学		能源	及环境学

• 研究中心:39

• 内地研究院: 深圳, 成都

• 国际学术人员:70%

(来自35个不同国家和地区)





数据来源:城大网页(<u>https://www.cityu.edu.hk/zh-hk/about/cityu-at-a-glance</u>) 2021年11月19日·

5个核心研究领域 (策略性发展计划 Strategic Plan)

(1) One Health 健康一体化

Developing and integrating interdisciplinary, problem-based research collaboration and communication in all aspects of health-related issues

(2) Digital Society 数码化社会

Developing digital innovations for daily life and a thorough understanding of the relationship between digital advancement and society.

(3) Smart City 智慧城市

Creating innovative solutions to address regional and global concerns, such as sustainable energy, climate change, through collaborative efforts among diverse disciplines and programmes.

(4) Matter 物质科学

An interdisciplinary study of matter and materials in their various forms, covering areas from synthesis to processing and fabrication, from properties evaluation to modification, and from design to applications.

(5) Brain 脑科学

An interdisciplinary joint effort to provide a better understanding of the structure and functions of the human brain and the understanding of mind, including potential of human-machine interfaces.



第4位

[QS] 2021年「建校未满50年全球最佳学府」

第53位

[QS] 2022年世界最佳大学排名

14位

教研人员膺选为科睿唯安(Clarivate) 2020年「高度被引用的科学家」

香港第1位

- 全球首100家获颁最多美国专利的大学(2020年)
- QS世界大学排名榜 2017至2021年间「论文引用数量」的五年平均值

Our New Colleague - The Service Robot



Sibob (思博) His nickname is Bob / 阿博 / 小博

Run Run Shaw Library (邵逸夫图书馆)



Collection	Number		
Volumes in Library	1,211,700	volumes	
• Monographs	1,034,000	volumes	
• Bound Serials	177,700	volumes	
Current Serials	1,030	titles	
Audio-visual Materials	71,000	items	
e-books	2,174,500	titles	
e-journals	114,900	titles	
e-audio & e-video	186,700	titles	
Databases	390	titles	

Planning and Proposal 规划与提案

Research Project 研究项目

• **Library Resources** (collections, ILL, CRIS, etc.) to support literature discovery, prior-art search for idea generation & re-creation

• Information Search Skills Programs

Data Management Plan

Digital Humanities

Discovery, Archiving & Showcasing 发现, 存档 & 展示

- CityU Scholars (CRIS)
 - Researcher profiles
 - Research output & achievements
 - Press/Media, Projects & Grants
 - Gov't reporting & benchmarking
- Research Impact Measurements
 - Bibliometrics
 - Altmetric, SciVal, InCites, ESI
- Open Access
- Research Data Management (archiving)

A sesearch Ideas A sesearch Ideas Research Library's Roles & Services in Research Cycle Saupuid Bang Scholary communication 图书馆在研究周期 中的角色与服务

• Continuous Information Support (Library resources, information literacy, etc.)

• Research Data Management (Platform & services)

• **Space** (Makers' space & place for research assistants/PhD students)

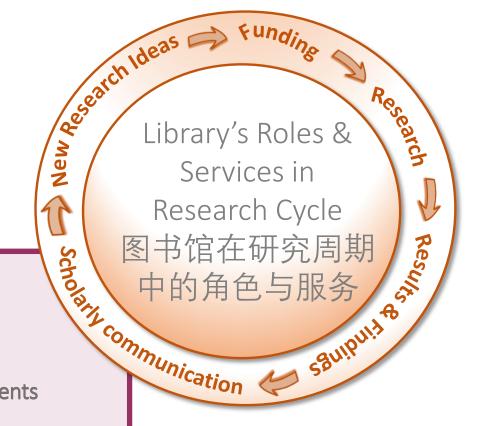
Publication, Presentation & Dissemination 出版,报告&传播

- Author Identity Management (ORCID, Scopus profile cleanup)
- Citation Management (e.g. EndNote, REFWorks)
- Publishing Strategies
 (Journal metrics & ranking)
- Author Rights Management
 (Creative commons, publisher agreements,
 OA requirement)



Discovery, Archiving & Showcasing 发现, 存档 & 展示

- CityU Scholars (CRIS)
 - Researcher profiles
 - Research output & achievements
 - Press/Media, Projects & Grants
 - Gov't reporting & benchmarking
- Research Impact Measurements
 - Bibliometrics
 - ⁻ Altmetric, SciVal, InCites, ESI
- Open Access
- Research Data Management (archiving)



CityU Scholars

Current Research Information System (CRIS) 在研信息系统

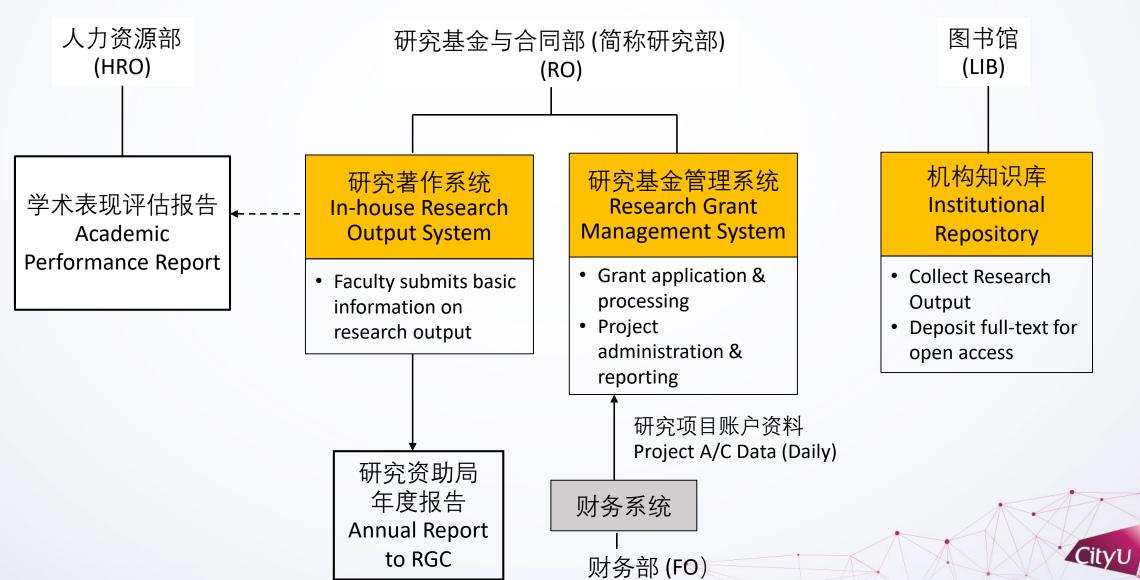
Research Information Management System (RIMS) 研究信息管理系统

CityU Scholars

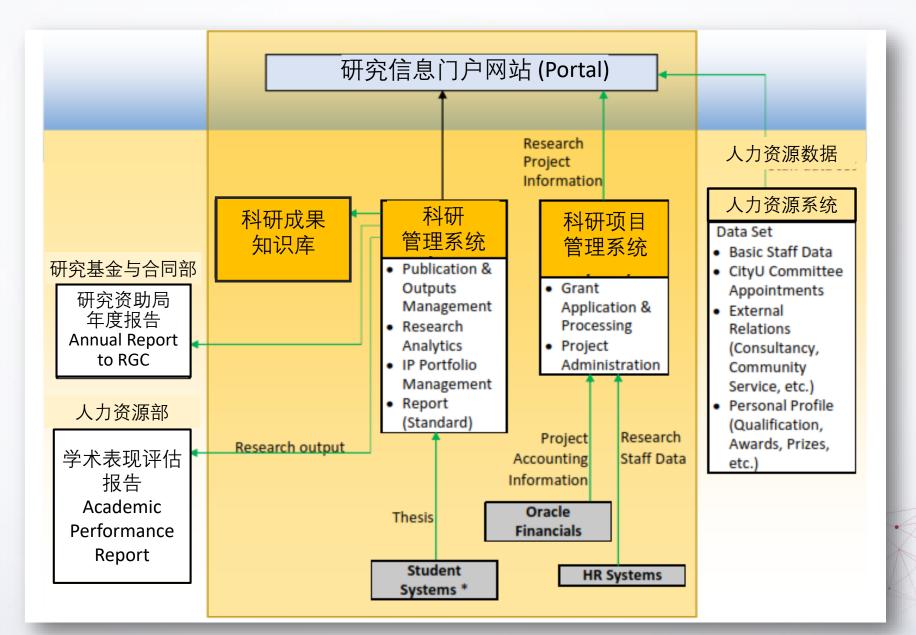
A Research Hub of Excellence

Project Background 项目发展背景

Problems - Silo Systems (困难:分散的系统)



Ideal - An integrated System (理想:一个整合的系统)



Ideal - An integrated System (理想:一个整合的系统)

研究信息门户网站 (Portal)

Current Research Information System

研究基金与合同部

研究资助局 年度报告 Annual Report to RGC

人力资源部

学术表现评估 报告 Academic Performance Report Research Information Management System (RIMS) 研究信息管理系统

(CRIS) 在研信息系统

- Backend (后台) for content management to support different management, administration and reporting needs
- Portal (用户界面) for featuring researcher profiles and showcasing their research achievements, outputs and impact

人力资源数据

人力资源系统

Data Set

- Basic Staff Data
- CityU Committee Appointments
- External Relations (Consultancy, Community Service, etc.)
- Personal Profile (Qualification, Awards, Prizes, etc.)

The Project Management Structure 项目管理架构

Project Steering Committee (PSC) 项目指导委员会

- Co-directors: Vice President (Research) and the then Associate Provost (Quality Assurance) [Now the Provost]
- Members: Vice President (Administration), CIO, Librarian, members of Project Assurance Team
- Roles: Gives direction, oversees project development and makes decision on recommendations



资讯系统服务处(简称IT部)

- Technical support
- User account management
- Supervision, patents
- Dashboard / report maintenance

Library 图书馆

- Research output data harvesting
- Research output metadata validation
- Student Theses
- Open access / full text management
- Researcher profile troubleshooting
- CityU Scholars Portal display

Research & Contracts Office

研究基金与合同部

(简称研究部)

- RGC research output reporting
- Grants and Projects

Other Research Information Data Providers

Human Resources Office

Finance Office

Knowledge Transfer Office

School of Graduate Studies

The Project Timeline for <u>CityU Scholars</u>(项目时间表)

Project Planning 项目规划 Development & Implementation 发展&实施 Launch & Production 启用 Continuous Support & Development 持续支持&发展

2015 - 2016

April 2016 - April 2017

June 2017+

Hereafter

成立项目专责小组 了解持份者需要 申请拨款 准备标书 选择系统

系统设定用户化 导入学者个人资料 旧数据清洗与转移 门户网 (Portal) 设计 制定用户及数据收集政策 设立用户账号 制定工作流程 ······ 制作用户支援网站路演 (roadshow)软启动 (soft launch)用户教育用户指南

改善工作流程 更新用户指南 持续用户教育 回答用户查询 收集科研著作记录 校验及优化记录 制作报告





CityU

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Data In & Information Out 资讯的进与出

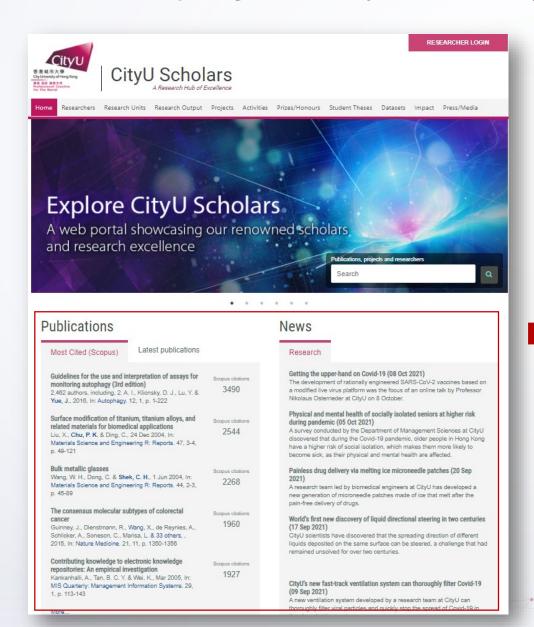
展示成果 **Showcasing** Researcher Profile (学者主页) 学者资料 **Staff & Organizations** CityU Scholars (from HRO) 学术人员 **Academic Staff** 研究项目 https://scholars.cityu.edu.hk/en/ **Appraisal** 表现评估 **Projects & Grants** 与拨款 (from RO) 政府报告 专利与合约 **Government Reporting Patents & Agreements** (from KTO) 香港城市大学的 **Research Assessment** 科研水平 博士生论文 在研信息系统 **Student Theses** Exercise 评估 (from LIB + SGS) 学者识别码 整合了來自不同渠道 Open Access (OA) 开放获取 **Author IDs & Metrics RGC Requirement** (from LIB) 的研究信息 **Research Student** 传媒报道 **Press & Media** 研究生 (from VPRT + CPRO) Performance 表现评核 **Evaluation** 研究著作 **Research Output Records** 及奖项 **Bibliometrics &** 文献计量 & Achievement (from LIB + Researcher) **Benchmarking** 标杆分析

CityU Scholars

A Research Hub of Excellence

Portal Features 门户网站特点

最新/最多引文的论文及研究相关的新闻





学者主页



Research Units Research Output Projects Activities Prizes/Honours Student Theses Datasets Impact Press/Media

Address: YEUNG-P7701

Phone: +852 34429653

ORCID iD: 0000-0001-5362-0316

Scopus Author ID: 55513401700

ResearcherID: C-8044-2013

jianlu@cityu.edu.hk

View graph of relations Bibliometrics

RESEARCHER LOGIN



Prof. LU Jian (呂堅)

Dip Ing, MSc, PhD (UTC), Habilitation (UPMC Paris 6), Fellow SEM, Fellow HKAES, Fellow HKIS, Academician: National Academy of Technologies of France

Chair Professor, Department of Mechanical Engineering Senior Fellow, Hong Kong Institute for Advanced Study

Director (NPMM), Hong Kong Branch of National Precious Metals Material

Engineering Research Center

Director (CASM), Centre for Advanced Structural Materials

Chair Professor, Department of Materials Science and Engineering

Chair Professor, Department of Biomedical Sciences

Other Links

- Google Scholar Profile
- Publons Profile
- · Technologies for Licensing
- COVID-19 Prediction

More on this researcher

Overview	Research Output	Projects	Activities	Prizes/Honours
Student Theses	Press/Media	Supervision	Patents (CityU)	

Research Interests/Areas

- · Experimental mechanics
- Residual stress
- · Mechanical properties of metallic and ceramic materials
- Metallurgy
- 4D printing

Qualifications/Experiences

Educational Qualifications

Habilitation, Mechanics, UPMC (Université Pierre et Marie CURIE) (University of PARIS VI)

Research related information and all-round achievements 全方位展示研究成果

- Overview 个人简介
- Research Output 著作论文
- Projects 项目基金
- Activities 学术活动
- Prizes/Honours 荣誉奖项
- Student Theses 研究生论文
- Press/Media 媒体报道
- Supervision 研究生指导
- Patents 专利
- Position(s) Available 招生信息



学者主页



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1993

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View graph of relations Bibliometrics

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Address: YEUNG-P7701 Phone: +852 34429653 jianlu@cityu.edu.hk

ORCID iD: 0000-0001-5362-0316 Scopus Author ID: 55513401700 ResearcherID: C-8044-2013

Researcher's various author IDs and profiles (学者的其他个人主页与ID)

- Departmental webpage 院系个人主页
- Google Scholar profile 谷歌学术主页
- Publons profile Publons主页
- ORCID iD
- Scopus Author ID
- ResearcherID



招生信息

More on this researcher ...

Overview	Research Output	Projects	Activities	Prizes/Honours
Student Theses	Press/Media	Supervision	Patents (CityU)	Position(s) Available

Position(s) Available

Visiting Faculty, Post Doctoral Fellow, Senior Research Associate, and/or Research Assistant

Duties: Research in different bibliometrics. Exciting opportunity to work in an interdisciplinary team to explore metrics for research impact measurement.

Requirements: Graduate Degree and/or related experience in Library and Information Science, Statistics or Informetrics.

PhD Studentships

PhD studentships are available for all admitted PhD students. (CityU Research Degree Programmes) Candidates who demonstrate a strong record on excellent academic and research performances are encouraged to apply for the PhD Fellowship Scheme (PhD Fellowship Scheme).

Please send your CV to:

Dr. Tom WANG

Department of Library Science

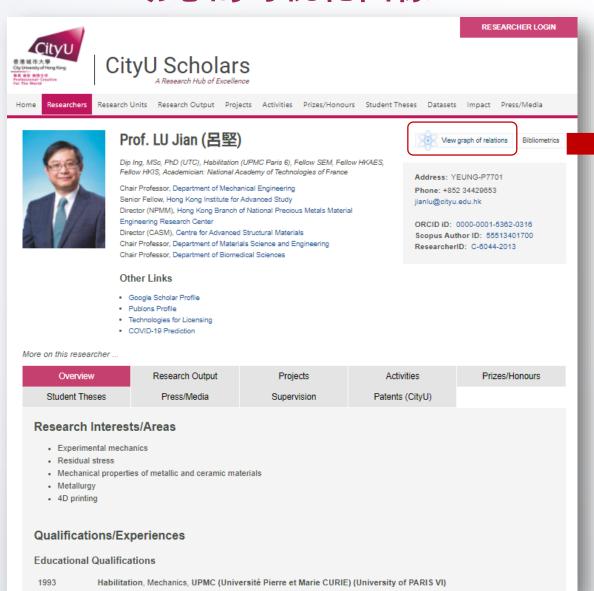
6/F Academic Building I

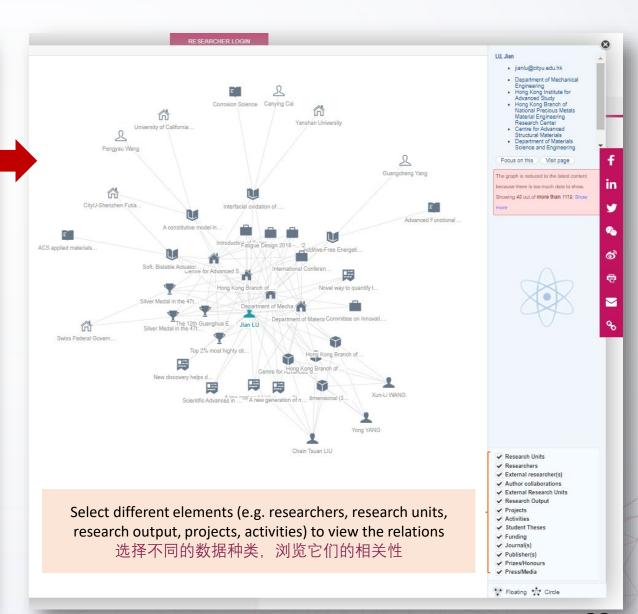
University of Demo

Demo Avenue, Kowloon, Hong Kong

tomwang@demo.edu.hk

动态的可视化图像





作者级计量信息



CityU Scholars

Home Researchers

Research Units Research Output Projects Activities Prizes/Honours Student Theses Datasets Impact Press/Media

RESEARCHER LOGIN



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1993

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Educational Qualifications

Habilitation, Mechanics, UPMC (Université Pierre et Marie CURIE) (University of PARIS VI)

Prof. LU Jian

Scopus

Author ID: 55513401700 Document Count: 568

Total Citations: 23594 by 14177 documents

h-Index: 68

Co-authors: 967 (maximum 150 co-authors can be

displayed)

Last Update: 2021-11-03 12:11:28

Publons*

ResearcherID: C-6044-2013

No. of Publications in Web of Science : 507

Total Citations: 20,611

h-Index: 63

Last Update: 2021-11-03 15:45:57

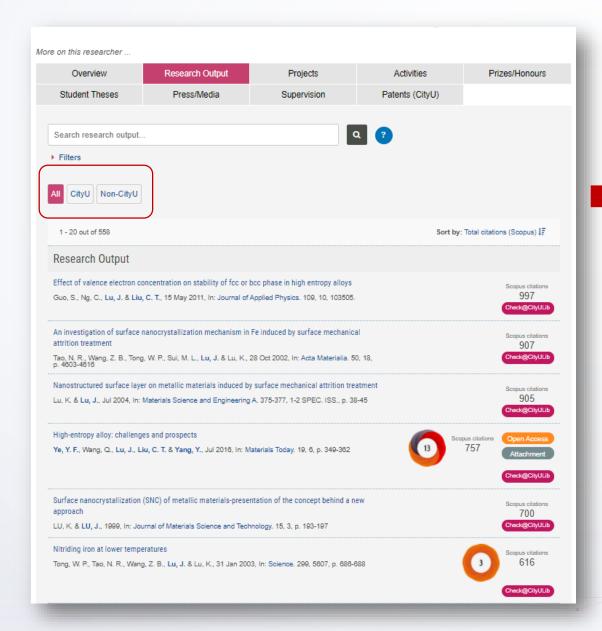
* Please update your Publons account with all your Web of Science publications with related metrics visibility set to publicly viewable so that the latest bibliometrics will be reflected here. You may also refer to the Publons Solution webpage for further help.

Google Scholar

Author ID: c2AX9BoAAAAJ

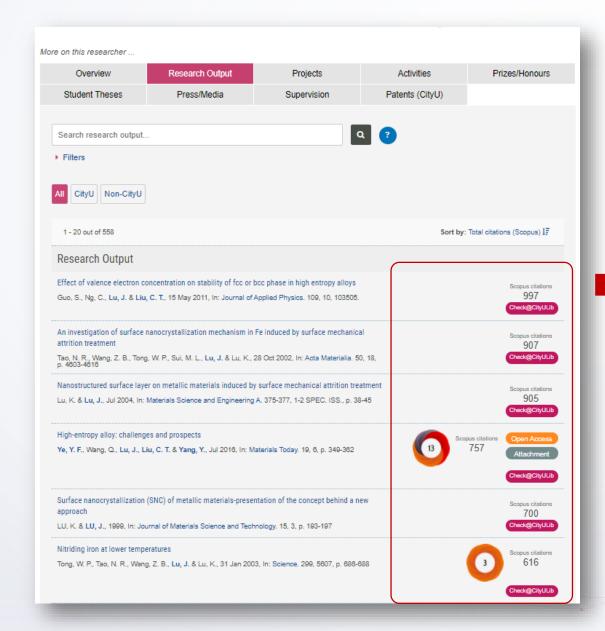
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Last Update: 2021-11-03 13:59:08

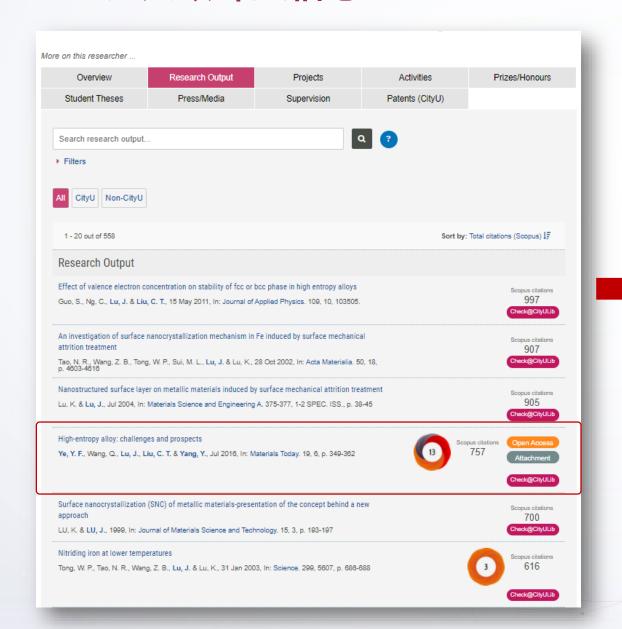


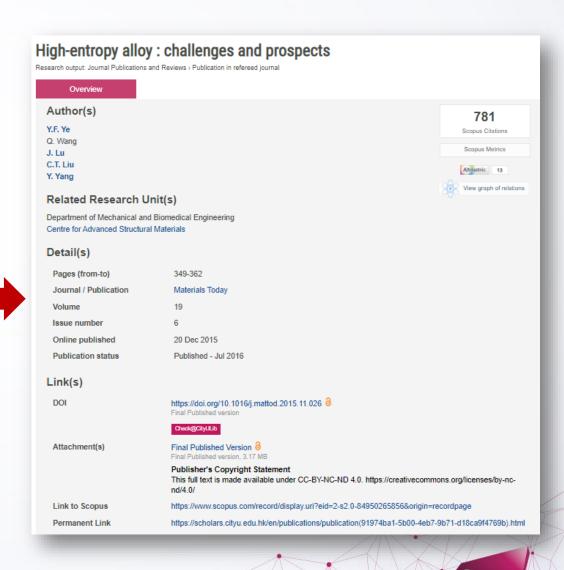


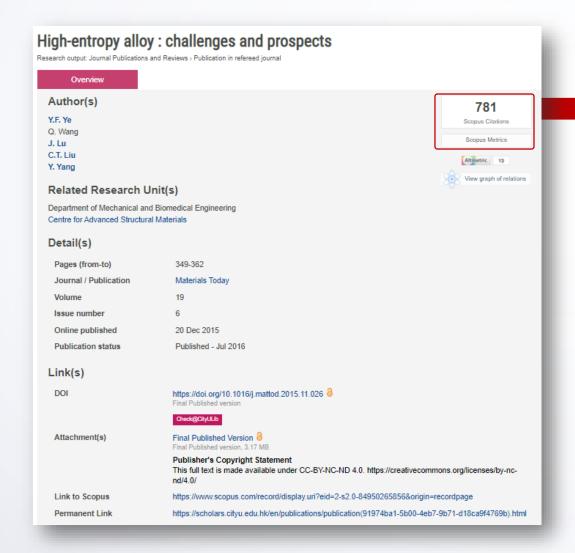
Researcher's career-long research output from both CityU and prior affiliations 作者的CityU/非CityU著作论文列表

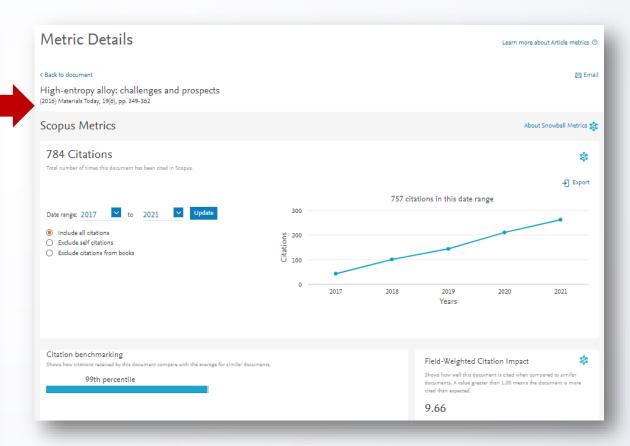


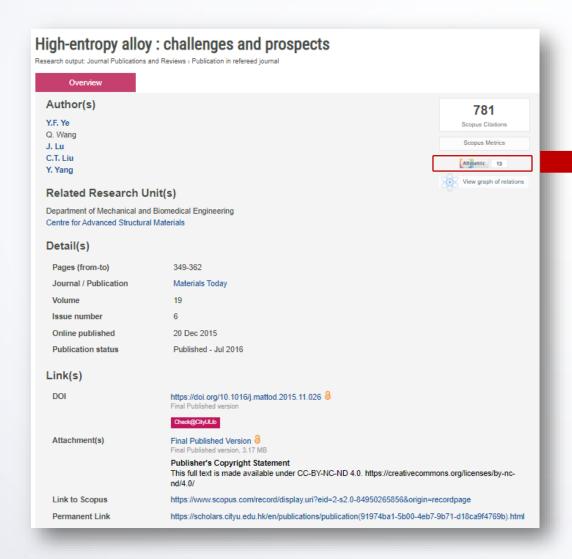
Citations and metrics from **Scopus** and **Altmetric** can be viewed on the research output list to demonstrate **research impact** 可浏览论文在**Scopus**和Altmetric网站上的的计量信息获知论文影响力

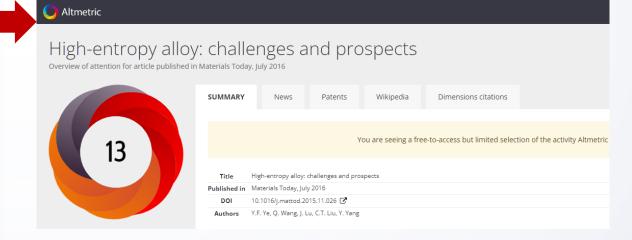




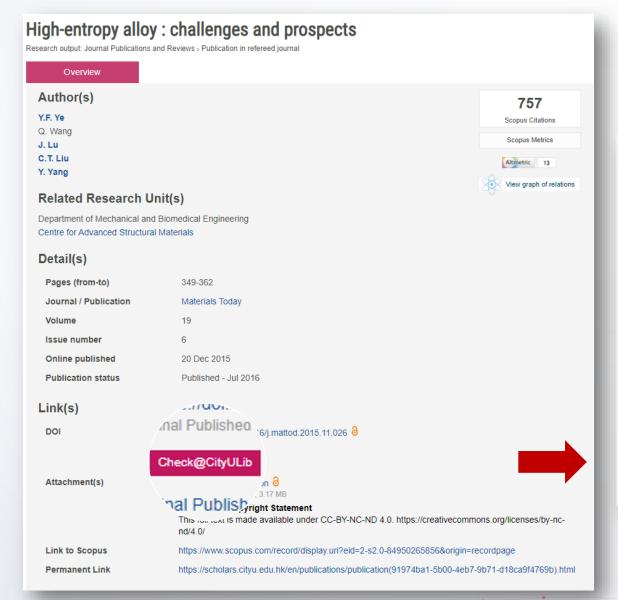


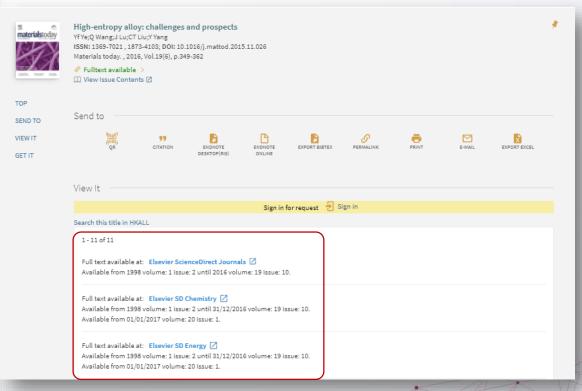




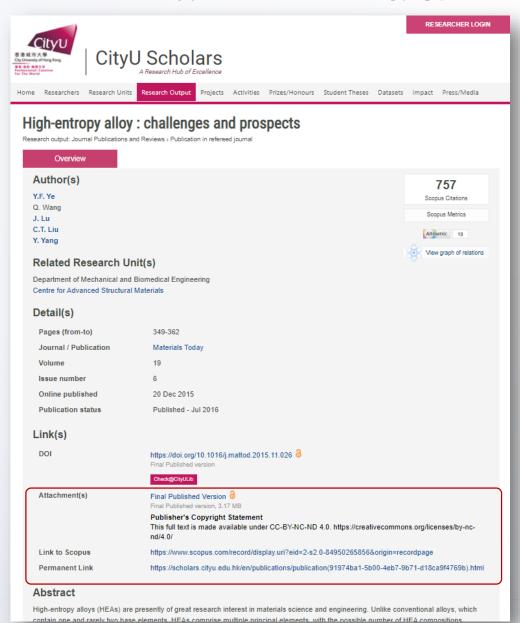


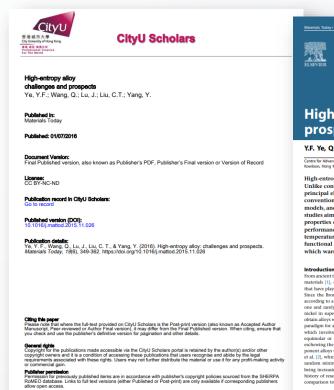
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High-entropy alloy: challenges and prospects

Y.F. Ye, Q. Wang, J. Lu, C.T. Liu and Y. Yang*

Centre for Advanced Structural Materials, Department of Mechanical and Biomedical Engineering, City University of Hong Kong, Tat Chee Avenue, Kowloon Tong,

High-entropy alloys (HEAs) are presently of great research interest in materials science and engineering. Unlike conventional alloys, which contain one and rarely two base elements, HEAs comprise multiple principal elements, with the possible number of HEA compositions extending considerably more than conventional alloys. With the advent of HEAs, fundamental issues that challenge the proposed theories. models, and methods for conventional alloys also emerge. Here, we provide a critical review of the recent studies aiming to address the fundamental issues related to phase formation in HEAs. In addition, novel properties of HEAs are also discussed, such as their excellent specific strength, superior mechanical performance at high temperatures, exceptional ductility and fracture toughness at cryogenic temperatures, superparamagnetism, and superconductivity. Due to their considerable structural and functional potential as well as richness of design, HEAs are promising candidates for new applications, which warrants further studies.

From ancient times, human civilization has striven to develop new that have played a pivotal role for more than thousands of years. Since the Bronze Age, alloys have traditionally been developed paradigm for alloy design was proposed about a decade ago [2,3], equimolar or near-equimolar composition to form alloys, thus number, N, of possible alloys can be increa ponent alloys were termed as 'high-entropy alloys' (HEAs) by Yeh being increasingly studied [2,4–8]. Nevertheless, given the short comparison to that of conventional alloys.

*Corresponding author: Yang, Y. (yonyang@cityu.edu.hk)

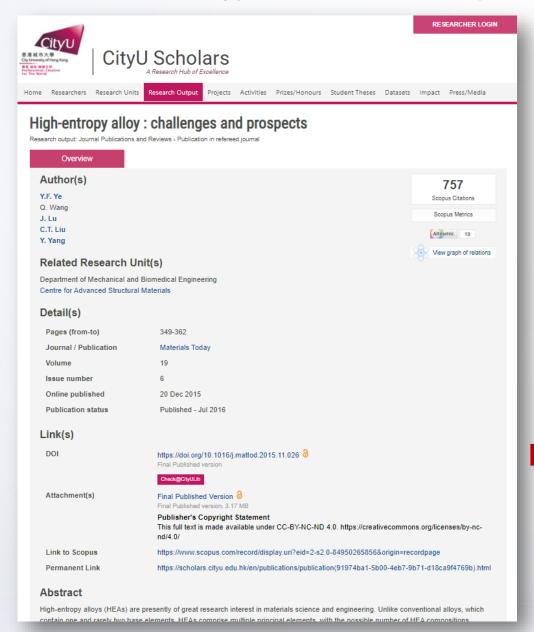
When designing alloys, researchers previously focused on the materials [1], discovering new metals and inventing new alloys occupy only a small portion of the design space, as illustrated by the inset of Fig. 1. However, with the advent of HEAs, the focus has been shifted to the central region. Conceptually, this is a radical according to a 'base element' paradigm. This strategy begins with departure from conventional theories [2,3,9], opening up new nickel in superalloys, and a minor alloying approach is used to the conventional 'base element' approach, only n types of alloys obtain alloys with enhanced properties. In sharp contrast, a novel can be obtained using n different base elements. However, if any combination of p elements were to be selected from the total of nwhich involves merely the mixing of multiple elements in an elements to form an equiatomic alloy (p = 2, 3, ..., n), the total eschewing the 'base element' concept. These designed multicom- $N = 2^n - n - 1$. When n is < 3, the strategies do not differ considerably; however, with increasing n, this difference can grow beet al. [2], which suggests the high configurational entropy of the cause of the exponential dependence of N on n. As shown in Fig. 1, random mixing of elements in these alloys. Presently, HEAs are one can obtain $N \sim 10^6$ possible equiatomic alloys for n = 20; this history of research on HEA, the field is still in its infant stage in the literature [2], Yeh defined HEAs as alloys containing at least five elements. Even if this convention were followed, the total number of possible HEA compositions remains considerably high even increasing tremendously as about 75% of the 118-element

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Attachment(s)

Final Published Version 6
Final Published version, 3.17 MB

Published version, 3.17 MB

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Link to Scopus https://www.scopus.com/record/display.uri?eid=2-s2.0-84950265856&origin=recordpage

Permanent Link https://scholars.cityu.edu.hk/en/publications/publication(91974ba1-5b00-4eb7-9b71-d18ca9f4769b).html

Abstract

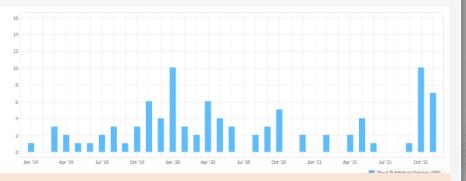
High-entropy alloys (HEAs) are presently of great research interest in materials science and engineering. Unlike conventional alloys, which contain one and rarely two base elements, HEAs comprise multiple principal elements, with the possible number of HEA compositions extending considerably more than conventional alloys. With the advent of HEAs, fundamental issues that challenge the proposed theories, models, and methods for conventional alloys also emerge. Here, we provide a critical review of the recent studies aiming to address the fundamental issues related to phase formation in HEAs. In addition, novel properties of HEAs are also discussed, such as their excellent specific strength, superior mechanical performance at high temperatures, exceptional ductility and fracture toughness at cryogenic temperatures, superparamagnetism, and superconductivity. Due to their considerable structural and functional potential as well as richness of design, HEAs are promising candidates for new applications, which warrants further studies.

Citation Format(s)

Standard	Harvard	APA	Vancouver	Author	
				[RIS][BibTeX]	
High-entropy alloy: challenges and prospects. / Ye, Y.F.; Wang, Q.; Lu, J.; Liu, C.T.; Yang, Y.					
In: Materials Today, Vol. 19, No. 6, 07.2016, p. 349-362.					

Download Statistics

Research output: Journal Publications and Reviews) Publication in refereed journal



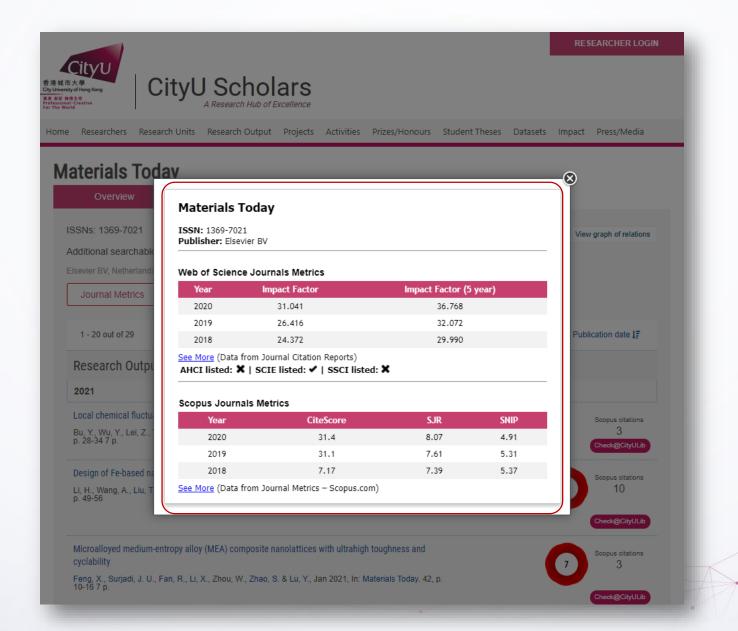
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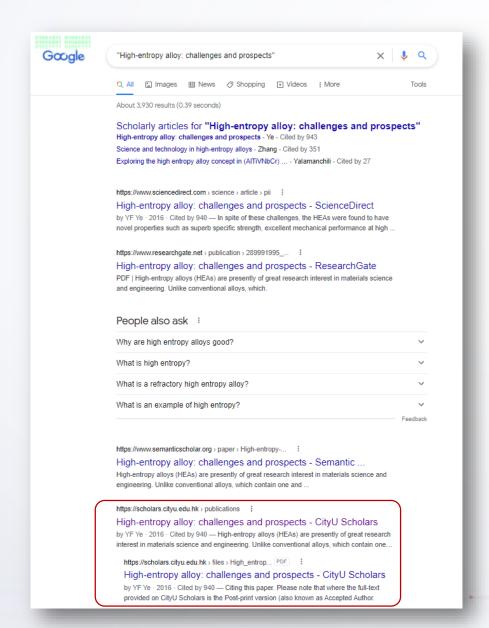
CityU

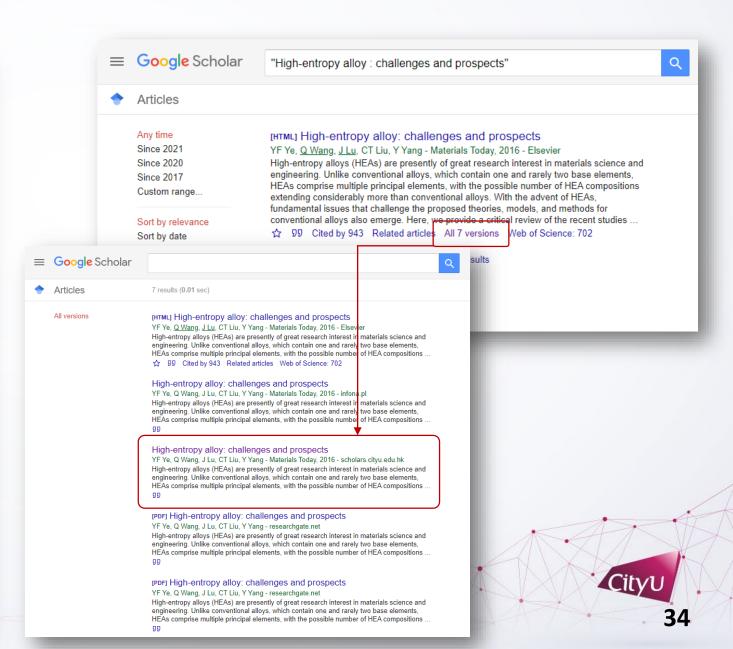
32

期刊级计量信息



高检索可见度





CityU Scholars

A Research Hub of Excellence

Related Library Services

相关图书馆服务

1. 研究成果内容管理及作者资料维护 Research Output Content Management and Researcher Information Maintenance



Research Output

- Record harvesting
- Various databases
- Record validation & enhancement
- Adding in missing persistent identifiers (e.g. DOI) & external publication IDs (e.g. Scopus EID, WoS UID)
- Author(s) mapping and sequencing
- Verifying affiliation(s) at time of authorship
- Adding in verified supplementary metadata gathered from full-texts, authors & other sources
- Record de-duplication and merging
- Record classification using RGC categories
- Feedback to sources/publishers for data correction
- Record visibility setting
- Public or backend



著作论文

- 从数据库中挖掘收集记录
- 多元化的数据库
- 记录校验、优化 & 增强/补充
- 添加唯一标识符 (DOI, Scopus EID, WoS UID)
- 人名对应及排序
- 验证作者机构
- 参考全文、作者提供的信息及其他数据来源校验、补 充元数据
- 合并重复录入的论文记录
- 校验/更改记录分类
- 申请更改数据源的错误信息
- 设置记录可见度
- 公开或后台可见

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1. 研究成果内容管理及作者资料维护 Research Output Content Management and Researcher Information Maintenance



Researchers & Affiliations

Information Synchronization from HRO

- Person records for internal authors ready in system for mapping to different content types
- Synchronized information: names & name variants, current & past departmental affiliation, current & past positions, contact information, etc.)
- Name authority control throughout the system

Author IDs verification

 Verifying and adding in different author IDs (Scopus AIDs, Publons ResearcherID, ORCID, Google Scholar profile number)



学者&机构信息

- 从人力资源部同步导入资料
 - 学者信息可与不同数据匹配
 - 自动导入的姓名&常用名,现时&过往的城大工作记录、职级、联络方式等
 - 权威控制的作者姓名
- 学者识别码
 - 校验和添加作者在不同系统的识别码 (Scopus作者ID, Publons作者ID, ORCID, 谷歌学者编号)

2. 研究影响力评估 Research Impact Measurement, RIM

- Perform data analysis and tailor bibliometrics/benchmarking reports for the University,
 Academic Units and individual researchers for:
 - Government reporting 政府报告
 - Management decisions for internal KPIs, benchmarking, etc. 管理层关于KPI/标杆分析的决策
 - Personnel decisions for recruitment, promotion, tenure, etc. 招聘/晋升/任期的人事考量
 - Academic performance evaluation 学术成果评估
 - Award applications 奖项申请

CityU Scholars

Research output information of CityU researchers

SciVal / Scopus

Scopus Data

SciVal Metrics Scopus Profile Refinement

InCites / WoS

Web of Science Data
InCites Metrics

ESI

Web of Science Data

Research Fronts
Highly Cited Papers
Hot Papers

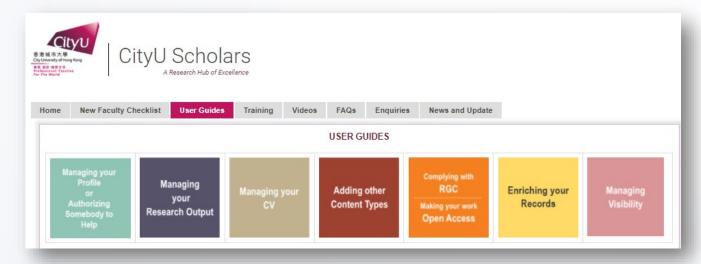
3. 开放获取 Open Access, OA

- Ensure the research information on CityU Scholars can be accessed by worldwide users 维护开放获取平台
- Flag OA indicators for publication records from record harvesting 标记OA论文
- Check & verify publisher's OA policies & embargo to fulfill the request of Research Grants Council (RGC) 校验OA政策
- Locate and upload the OA-compliant full-text to CityU Scholars for publication records 上载全文
- Attach publisher's copyright statement and license for use (if any) to publication records 附加版权/使用说明
- Work with publishers/organizations for OA agreement 签订OA协议



4. 用户培训 User Education

• User guides, videos, leaflets, etc. 用户指南/视频/宣传单张



- Annual training workshops 年度培训
- New staff orientation 新用户简介会
- Ad hoc consultations and seminars for specific research needs 咨询和讲座
- Functional email accounts for timely response to user enquiries 反馈用户查询

CityU Scholars

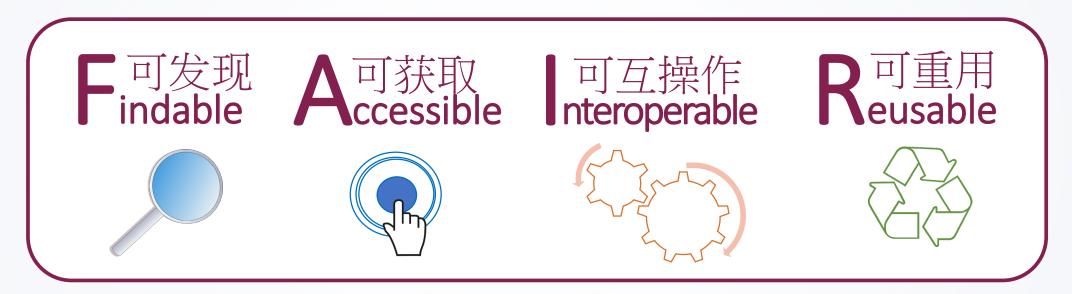
A Research Hub of Excellence

从FAIR原则看CityU Scholars

CityU Scholars from the FAIR Perspectives

The FAIR Principles (FAIR原则)

一套旨在克服数据发现与重用障碍的数据管理原则



- The term FAIR was first launched at a <u>Data FAIRPORT Lorentz workshop</u> in the Netherlands 2014.
- The resulting FAIR principles were <u>published</u> in 2016 in <u>Scientific Data</u> (Wilkinson, M., Dumontier, M., Aalbersberg, I. et al. The FAIR Guiding Principles for scientific data management and stewardship. Sci Data 3, 160018 (2016). https://doi.org/10.1038/sdata.2016.18)
- The FAIR principles 'living document' is now hosted at GO FAIR Initiative.
- Extending FAIR principles for RDM into the wider domain of research information and CRIS.
 - FAIRNESS of Research Information, 14th International Conference on CRIS, 2018.
 - FAIRIO Workshops, 2020

The FAIR Principles (FAIR原则) – Key Points 重点

可发现 Findable	The first step in (re)using data is to find them. Meta(data) should be easy to find for both humans and computers → rich metadata (丰富的元数据) → persistent identifiers (持久标识符)
可获取 Accessible	Once the required data is found, users need to know how can they be accessed, possibly including authentication and authorisation
可互操作 Interoperable	The data usually need to be integrated with other data and interoperate with applications or workflows for analysis, storage, and processing. → Sharable meta(data) in broadly applicable language and vocabularies (词汇) that follow FAIR principles. → (Meta)data include qualified references to other (meta)data (包括其他有参考性的元数据)
可重用 Reusable	The ultimate goal of FAIR is to optimise the reuse of data. To achieve this, meta(data) should be well-described so that they can be replicated and/or combined → Richly described (meta)data with a plurality of accurate (准确) and relevant attributes (相关的屬性) → (Meta)data are released with a clear and accessible data usage license (使用授權的條件或協議)

Excerpted and paraphrased from https://www.go-fair.org/fair-principles. Please refer to the website for full version.

可发现原则在CityU Scholars上的应用

- Data synchronized from reliable (可信) institutional sources with authority control (权 威控制)
- Research output records from different sources are validated and enhanced to ensure accuracy (准确) and best coverage of different metadata attributes (全面丰富的数据)
- Researcher profiles and entities on CityU Scholars are with unique persistent identifiers (唯一永久标识符), supplemented by proprietary external IDs and links (专有ID和链接)
 - Authors: ORCID, author IDs (Scopus AID, Publon ResearcherID, Google Scholar, etc.)
 - Research Output: DOIs, Scopus EID, WoS UID, Patent no. etc.
- Related research entities can be interlinked (关联) for easy retrieval and establishing relations
- Researcher profiles and output records are discoverable and highly ranked (高可见度)
 on the list of results by global search engines (e.g. Google, Google Scholar)

可获取原则在CityU Scholars上的应用

- Research information on CityU Scholars is openly accessible (开放获取) to worldwide users
- Full-text (全文) of articles (published or postprint versions) deposited for open access
- Authentication (认证) is required for administrators/users to do data enhancement and validation
- APIs available for retrieval of records by machines (机器可读)
- Records exportable in different formats (多样化的输出格式), e.g. Excel, RIS, BibTex, CERIF XML



可互操作原则在CityU Scholars上的应用

- Pure backend of CityU Scholars implements the Common European Research Information Format (CERIF) standard (通用欧洲科研信息格式) with a relational entity data model to ensure interoperability with different systems
- Records directly importable (导入) from external sources, e.g. Scopus, Mendeley, PubMed, Web of Science, arXiv.org, CrossRef
- Records exchange (交流) with internal systems, e.g. Central Knowledge Transfer Data Repository, RGC Reporting System, the electronic Annual Performance Report System (e-APR), the Executive Research Information System (ERIC), Research Assessment Exercise System (RAE), Research Degree Student Management System (RDSS)
- Integrated with ORCID (与ORCID整合) for seamless ORCID registration and synchronization of validated records to ORCID

可重用原则在CityU Scholars上的应用

- Prevailing citation formats (通用的论文格式标准) available to choose from for research output records
- Creative Commons license (知识共享许可协议) and copyright statement (版权说明) governs the re-use conditions
- A central registry of inter-related research information (中央注册的关联信息系统) with a plurality of accurate and relevant attributes (准确和关联的信息) to serve as a single source of truth (唯一信息源) to support re-use for different purposes:
 - Government Reports: Annual Reports to RGC, Research Assessment Exercise (RAE),
 KPIs for University Accountability Agreement Report, CDCF
 - Performance Assessment: Annual Performance Report for Faculty, Research Degree
 Planner
 - Benchmarking: Research Impact and benchmarking reports
 - Enhancing Visibility: Showcasing the whole spectrum of research achievements through for individual faculty and the University as a whole through the Portal

CityU Scholars内容数量

Content Types (内容种类)	数量
Research Outputs 科研成果	>125,000
Research Activities 科研活动	>87,000
Prizes / Honours 奖项	>8,000
Projects 科研项目	>6,000
Student Theses 博士生论文	>5,900
Press / Media 媒体报导	>1,600

个案分享: 科研水平评估 2020

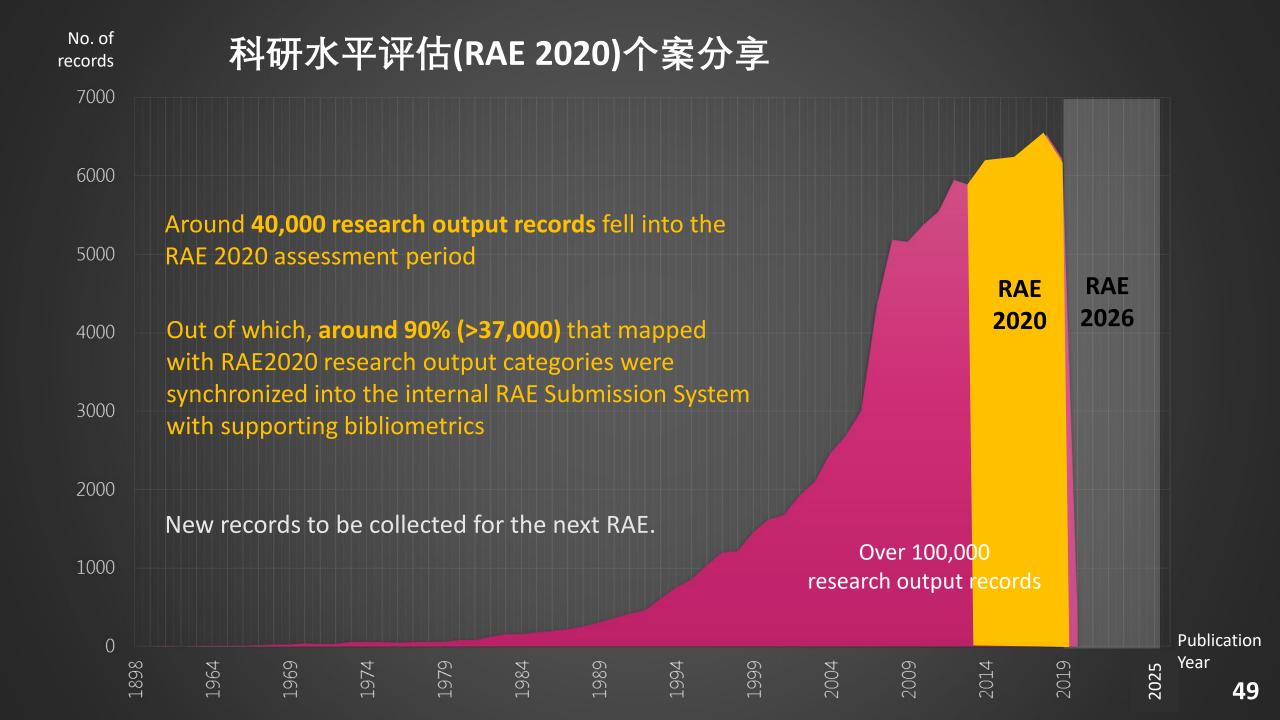
Case Study: Research Assessment Exercise (RAE 2020)

- Assessment by the University Grants Committee(UGC) [大学教育资助委员会,简称教资会] every 6 years
- 4 best research outputs in the past 6 years from each eligible researcher to be submitted
- Requires outputs to be submitted with complete metadata for cross-checking and full-texts for inspection and be classified in UGC categories

Challenges:

- Need to gather all outputs in the past 6 years for selection by researchers with supporting bibliometrics
- UGC's requirements on metadata completeness and accuracy as well as output classification
- Control on duplicate submission by co-authors
- Seamless data flow between CityU Scholars and the internal RAE Submission system

The fact the CityU Scholars Pure System and its collected metadata being FAIR has been a great help.



CityU Scholars

A Research Hub of Excellence

用户交流&参与

Communication & Involvement

支援网络 (Supporting Network)

内容管理

图书馆

- Regular research output harvesting, validation & enhancement
 - Support for Open Access
- Support for ORCID integration & Scopus
 Profile Refinement
 - Support for data analysis & report generation









系统维护

Regular upgrade & system health check

- Regular data interfacing
 - User administration

用户支援

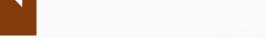
图书馆 IT部 研究基金与合同部

- User enquiries
- User training & guide
- Support for RAE and other government reporting

行政支援

获授权的代理人(Trusted User) 院系指定人员(Departmental Administrator)

- TU authorized by researchers & DA authorized by Head of Department
- Profile and record management for authorized researchers or departments
- Data verification
- Channel enquiries/comments to other supporting units



用户参与 (User Engagement)

Researcher

- Monitor publication list
- Track citation changes
- Populate research achievement of different types
- Keep researcher profile up-to-date

Designated personnel

- More aware of roles & responsibilities
- Provide user support in a proactive way

Faculty & Department

- More inter-dept communication & collaboration
- Provide user support in a systematic way with streamlined workflow

University

- Have a holistic view of CityU's research excellence with data, metrics, relations, visualization all in one place
- Perform high-level assessment & benchmarking, reputation management, promotion, decision making & strategic planning with ease



CityU Scholars A Research Hub of Excellence Way Ahead

The New Open Access Plan of the Research Grants Council (RGC) 研究资助局新推出的Open Access 计划

图书馆对应新Open Access计划第一阶段的支援

为日后提供OA相关统计数字作准备 → 需要收集更多与OA有关的metadata (元数据)

- Article Processing Charges (APCs) [文章处理费] and institution(s) that paid
- RGC-funded project information for publications concerned
- OA colour (Gold versus Green) for records
- Copyright ownership [版权拥有权] information
- Corresponding author [通讯作者] indicator
- Transformative agreement [转型化合约] information

RGC Publication Gateway → 为RGC提供旧项目产出的著作的元数据及补充OA资料

研究数据管理培训→ 提升内部人员相关技能和知识,计划对学者的支援服务和相关系统要求,准备迎接第二阶段研究资助局对数据管理计划的要求

Research Grants Council (RGC) 研究资助局的Open Access 计划

CityU Scholars

https://www.ugc.edu.hk/doc/eng/ugc/publication/report/report20210106/report20210106.pdf

研究数据管理 (Research Data Management)



数据管理的好处 (Benefits of Research Data Management)

Funders 拨款机构



- Meet grant requirements 满足拨款条件
- A more competitive grant application 增加拨款申请的竞争力

Publishers 出版商



- Comply with journal data policy 满足期刊对 研究数据政策要求
- Support data publishing 支持数据出版

Collaborate 方便协作



- Secure data workspace 需要安全的数据工作间
- Share data with internal & external collaborators with higher efficiency 跟伙伴有效率地分享数据

Archive 存档



• Long term preservation of research data after research with better organization and access control 研究完毕后,整理及长久保存数据,并管理提取

Visibility 可见度



- Data can be found and cited (with DOI) 数据有 DOI, 方便发现和引用
- Open up collaborative opportunities 带来更多合作机会

Re-use 重用



- Facilitate re-use to increase impact of university and researchers 促进数据重用,提升学者和大学的研究影响力
- Keep track of usage statistics 计算使用量

计划服务模式 (Planning Service Model)

要有管理机制,系统及平台处理研究数据集 (datasets)的检索,并按拨款机构 (funding bodies)的要求或项目的性质,开放,限制或延后数据的获取和重用?

Discovery, Access and Reuse of Data 数据发现 获取和重用 Research
Data Planning
and Design

数据规划

Research Data Creation / Collection 数据采集

学者的需要

1

需要一个安全可靠的 机构数据档案库 (institutional data repository) 来长期保存 数据集(datasets) 和 相关的数据管理计划文件 (data management plan)?

机构数据档案库要有 政策 (policies) 规管使用者资格, 数据保存期及保存量等吗?

Long Term
Data Storage &
Preservation

长期保存 数据

Data Study & Analysis

数据分析

Short Term Data Storage and Sharing

短期保存及 分享数据

需要一个短期的暂存数据工作间 (working space) 来跟研究团队分享数据,方便合作?



CityU Scholars 作为机构数据档案库? CityU Scholars as an Institutional Data Repository?

- Data Repositories 的一些基本要求:
 - 支援学者对研究数据的协作性更新 (collaborative editing of datasets)
 - 分配DOI功能
 - 研究数据档案版本管理 (File versioning)
 - 储存空间 (Storage)
- CityU Scholars 现时收集的研究数据集记录不多
 - 大部分都储存在校外的其他数据档案库里 (e.g. FigShare, NIH Repository, etc.)
 - 只有 metadata (元数据) 和相关数据档案库的连接 (links)
- 理想是一个能够在metadata 的层面跟 CityU Scholars无缝互通的数据档案库
 - Datasets 相关的元数据也可以自动汇入 CityU Scholars 里
 - Datasets 的信息可以跟在研信息系统里其他相关联的研究信息扣在一起, 在CityU Scholars 里整体的收集起来

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谢谢各位