<table>
<thead>
<tr>
<th><strong>Title</strong></th>
<th>Supporting research: Academic library opportunities and challenges</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Author(s)</strong></td>
<td>Sidorko, PE</td>
</tr>
<tr>
<td><strong>Citation</strong></td>
<td>The 2015 Online Information and Education Conference, Suan Dusit Rajabhat University, Bangkok, Thailand, 7-8 May 2015.</td>
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<td><strong>Issued Date</strong></td>
<td>2015</td>
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<tr>
<td><strong>Rights</strong></td>
<td>This work is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License.</td>
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</table>
Supporting research: Academic library opportunities and challenges

Peter E Sidorko
The University of Hong Kong
The University of Hong Kong (HKU)
The University

• Evolved from the Hong Kong College of Medicine, founded in 1887
• Founded 1911, oldest in HK
• Multidisciplinary/comprehensive - undergraduate & postgraduate
• 15,560 UG students; 11,880 PG students
• 7,065 academic staff; 3,705 admin and support staff
• Student learning: Research and innovation: Knowledge exchange
• High in Asian and World University Rankings.
## HKU Rankings

<table>
<thead>
<tr>
<th>Year</th>
<th>World Times</th>
<th>World QS</th>
<th>Asia Times</th>
<th>Asia QS</th>
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<td>2008</td>
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# Research Performance

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<thead>
<tr>
<th>Indicator</th>
<th>Performance</th>
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<tbody>
<tr>
<td>Research Grants Council (RGC) Areas of Excellence (AoE) Awards</td>
<td><strong>Highest cumulative number of awards and largest amount of any UGC-funded institution</strong></td>
</tr>
<tr>
<td>Research Grants Council (RGC) Theme-based Research Scheme (TRS)</td>
<td><strong>Highest cumulative number of awards and largest amount of any UGC-funded institution</strong></td>
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<tr>
<td>Research Grants Council (RGC) General Research Fund (GRF) Awards</td>
<td><strong>Highest number of awards of any UGC-funded institution</strong></td>
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<tr>
<td>Funding secured in RGC GRF Awards Scheme</td>
<td><strong>Largest amount of any UGC-funded institution for 13 successive years</strong></td>
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<tr>
<td>Croucher Foundation Senior Research Fellowships</td>
<td><strong>Largest number of fellowships of any UGC-funded institution</strong></td>
</tr>
<tr>
<td>Chinese Academy of Engineering (CAE) Academicians</td>
<td><strong>Joint largest number of Academicians of any UGC-funded institution</strong></td>
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<tr>
<td>Chinese Academy of Sciences (CAS) Academicians</td>
<td><strong>Largest number of Academicians of any UGC-funded institution</strong></td>
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## Research Performance

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Performance</th>
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<tbody>
<tr>
<td>Refereed publications</td>
<td><strong>Highest number of any UGC-funded institution</strong></td>
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<tr>
<td>Refereed publications per academic and research staff member</td>
<td><strong>Highest number of any UGC-funded institution</strong></td>
</tr>
<tr>
<td>Total number of citations of HKU papers in journals tracked by Thomson Reuters</td>
<td><strong>Highest number of any Hong Kong institution tracked by Thomson Reuters</strong></td>
</tr>
<tr>
<td>Total number of publications published in journals tracked by Thomson Reuters</td>
<td><strong>Highest number of any Hong Kong institution tracked by Thomson Reuters</strong></td>
</tr>
<tr>
<td>115 HKU professoriate staff have been ranked by Thomson Reuters as being among the world’s top 1% of scientists, based on the number of citations recorded for their publications (June 2014)</td>
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The University of Hong Kong, (2014) *First and Foremost*,
## Research Outputs in 2012 / 2013

<table>
<thead>
<tr>
<th>Broad Disciplinary Areas</th>
<th>All Research Output</th>
<th>Refereed Research Output</th>
<th>Prizes and Awards</th>
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<tr>
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<td>2,702</td>
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<tr>
<td>Engineering</td>
<td>1,149</td>
<td>912</td>
<td>49</td>
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<tr>
<td>Humanities, Social Sciences and Business Studies</td>
<td>2,455</td>
<td>1,724</td>
<td>77</td>
</tr>
<tr>
<td>Physical Sciences</td>
<td>555</td>
<td>356</td>
<td>18</td>
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<tr>
<td><strong>All</strong></td>
<td><strong>7,340</strong></td>
<td><strong>5,694</strong></td>
<td><strong>265</strong></td>
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</table>


## Research Projects in 2012 / 2013 (On-going and New)

<table>
<thead>
<tr>
<th>Broad Disciplinary Areas</th>
<th>Research Grants Projects</th>
<th>Research Contract Projects</th>
<th>All</th>
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<tbody>
<tr>
<td></td>
<td>No. of Projects</td>
<td>Funding (in HK$M)</td>
<td>No. of Projects</td>
</tr>
<tr>
<td>Biology and Medicine</td>
<td>3,091</td>
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</tr>
<tr>
<td>Engineering</td>
<td>703</td>
<td>523.4</td>
<td>77</td>
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<tr>
<td>Humanities, Social Sciences and Business Studies</td>
<td>1,201</td>
<td>1,165.1</td>
<td>171</td>
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<tr>
<td>Physical Sciences</td>
<td>420</td>
<td>620.2</td>
<td>39</td>
</tr>
<tr>
<td><strong>All</strong></td>
<td><strong>6,415</strong></td>
<td><strong>6,943.3</strong></td>
<td><strong>599</strong></td>
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</tbody>
</table>
Research Trends
• Overwhelming growth in research output
  – Booming higher education sector
  – Competitiveness, rankings etc
  – Growth in research funding opportunities
• Multi and interdisciplinary research
• Greater accountability to funders (eg RAE)
• Transparency with output
  – Open access
  – Open re-usable data
• Emphasis on research for community needs
• Knowledge transfer and the role of the university
• Measures of “impact” beyond bibliometrics => Esteem
• Accurate and interconnected attribution => ORCID
• Technology
• Internationalisation of research
• The “rise” of China
Supporting research: Challenges
The University of Hong Kong Faculty Survey: Report of Findings.
Ithaka S+R, April 2015.
The Research Process
Research Pattern – old

Adapted from Arnold Hirshon: *Understanding and Managing the Environment*, The 13th University of Hong Kong Annual Library Leadership Institute *Leading the Next Generation Research Library Xiamen, 24-28 April 2015.*
Research Pattern – new

Adapted from: Arnold Hirshon, Understanding and Managing the Environment, The 13th University of Hong Kong Annual Library Leadership Institute Leading the Next Generation Research Library Xiamen, 24-28 April 2015.
current trends: content discovery
research patterns – from linear to synaptic

shifted from

- Conceptualize
- Study
- Research
- Learn
- Write
- Seek Advice
- Produce
- Disseminate

shifted to

- Entertain
- Conceptualize
- Study
- Socialize
- Seek Advice
- Produce
- Disseminate
- Write
- Learn
- Research

Where is the library?

Adapted from: Arnold Hirshon, Understanding and Managing the Environment, The 13th University of Hong Kong Annual Library Leadership Institute Leading the Next Generation Research Library Xiamen, 24-28 April 2015.
1. Idea

2. Develop and Design

3. Obtain funds

4. Undertake research

5. Disseminate

6. Archive/preserve/share

The Research Cycle
1. Idea
Key elements

• Getting started
• Initial findings and readings
Typically, when you are conducting academic research, which of these four starting points do you use to begin locating information for your research?
When you try to locate a specific piece of secondary scholarly literature that you already know about but do not have in hand, how do you most often begin your process?

- Visit my university library’s website or online catalog:
- Search on a specific scholarly database or search engine:
- Search on a general purpose search engine:
- Ask a colleague:
- Ask a librarian:
- Other:
2. Develop and Design
Key elements

• In-depth research consultations
• Expanded access to research collections
• Access beyond home collections
• Seeking potential collaborators
When you try to locate a specific piece of secondary scholarly literature that you already know about but do not have in hand, how do you most often begin your process?

- Visit my university library’s website or online catalog
- Search on a specific scholarly database or search engine
- Search on a general purpose search engine
- Ask a colleague
- Ask a librarian
- Other:
When you explore the scholarly literature to find new journal articles and monographs relevant to your research interests, how do you most often begin your process?

- Visit my university library’s website or online catalog
- Search on a specific scholarly database or search engine
- Search on a general purpose search engine
- Ask a colleague
- Ask a librarian
- Other:
When you want a scholarly monograph or journal article that you do not have immediate access to through your university library's physical or digital collections, how often do you use each of the following methods to seek access to that material?

- **Give up and look for a different resource that I can access**
- **Use interlibrary loan or document delivery services provided**
- **Contact the author**
- **Search for a freely available version online**
- **Purchase it myself from the publisher or a vendor**
- **Ask a friend at another institution**
- **Request a copy using social media (such as #icanhazpdf on...)**

Options:
- Often
- Occasionally
- Rarely
- Never
When you think about the journal articles and scholarly monographs that you routinely use, how important are each of the following sources?

- My university library’s collections or subscriptions
- My own personal collection or subscriptions
- My academic department’s collections or subscriptions
- Collections or subscriptions of other institutions
- Materials that are freely available online

Choose a rating from 8-10, 4-7, or 1-3.
2. Develop and Design

- Faculty and Postgraduate *Research Consultation* Service – focused skills development
- Help identify potential co-investigators/collaborators
- Citation management
- Expanded access to research collections
  - *Center for Research Libraries* (CRL)
  - *RapidILL*
6,500 foreign newspapers
2,000 titles of US ethnic newspapers
7,000 Journals (Asia and SEA)
20,000 Foreign Doctoral Dissertations
500,000 Monographs (Mostly SA and SEA)

Microform of Reprint Sets and Archives
Area Studies including
Cooperative Africana Microform Project (CAMP)
Latin American Microform Project (LAMP)
Middle Eastern Microform Project (MEMP)
Slavic and Eastern European Microform Project (SEEMP)
South Asia Microform Project (SAMP)
Southeast Asia Microform Project (SEAM)

500,000 Foreign Govt Docs
US State Docs
Special Collections eg WWII Crimes Tribunals etc
### Rapid Monthly Statistics

**System Averages June-2014**

<table>
<thead>
<tr>
<th>Borrowing Requests</th>
<th>Percent of Requests Filled</th>
<th>Average Filled Turn Around Time (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>85,430</td>
<td>96%</td>
<td>11.69</td>
</tr>
</tbody>
</table>

**SECAC California**

- 12 participants
- 23 participants
- 20 participants

*Requests of the week (Type of requests & participants)*

- Interlibrary requests
- Article requests
- Document supply orders

*Features enhanced in Rapid Research Collections*:

- Enhanced routing
- Improved routing awareness
- Routing requests use Rapid's powerful routing algorithm and this enhanced routing will move requests within your geographical region whenever possible.
3. Obtain funds
3. Obtain funds

- Help to identify suitable funding sources
- Utilise library *resources* (and *librarian* expertise) to develop grant applications
- Assist with Data Management Plan (if a condition of grant allocation)
- Advise on Open Access (if a condition of grant allocation)
- Plagiarism check
Library RoI Grants Study (2010)

- 71%-98% (over 90% in 5) state it is “important”, “very important” or “essential” to cite articles or books in their grant proposals
- Average # of citations in grant proposals: Range of 20-46 (articles or books)
- % of citations from e-collections varies from 50-99%
- For every article/book cited, 18-40 more are read

4. Undertake research
4. Undertake research

- Identify additional scholarly resources: *librarians, ILL, etc.*
- Citation management
- Identify useful datasets
How dependent would you say you are on your university library for research you conduct?
The library serves as a starting point or "gateway" for locating information for my research.

The library pays for resources I need, from academic journals to books to electronic databases.

The library serves as a repository of resources - in other words, it archives, preserves, and keeps track of resources.

The library supports and facilitates my teaching activities.

The library provides active support that helps to increase the productivity of my research and scholarship.

The library helps undergraduates develop research, critical analysis, and information literacy skills.

How important is it to you that your university library provides each of the functions below or serves in the capacity listed below?

- 5 - 6
- 3 - 4
- 1 - 2
5. Disseminate
5. Disseminate

- Identify suitable *conferences*
- Identify suitable *publication* sources
- Encourage and advise on Open Access
- Update researchers on bibliometrics
6. Archive/preserve/share
6. Archive/preserve/share

- Repository
- Metadata
- Research data management
Supporting research: Opportunities
Research Data Management

Current Research Information Service (CRIS)
CRIS?

• ...a database or other information system storing data on current research ...

• for researchers: easy access to relevant information

• for research managers and administrators: easy measurement and analysis of research activity and easy access to comparative information

• for research councils: transparency and optimisation of the funding process

• for entrepreneurs and technology transfer organizations: easy retrieval of novel ideas and technology and identifying competitors

• for the media and public: easy access to information ... to allow easily-assimilated presentation of research results in appropriate contexts

  – From Wikipedia
The HKU Scholars Hub is the institutional repository of The University of Hong Kong. As a key vehicle of HKU’s Knowledge Exchange Initiative, The Hub strives to make HKU authors and their research very visible, with the goal of increasing all forms of collaboration.

Quick Search of The Hub for:

- Publications
- Research Collaborations
- Thesis Supervisors
- Media Commentators

Search for Publications...

Featured Scholar

Dr King, Mark Edward
- Research Assistant Professor
- Research Interests:
  - Social and public policy
  - The impact of discrimination on mental health in minority populations

Hub News

- Oct 2014: Created Quick Searches on different types of researchers.
- Jun 2014: Created pages for faculties, depts & centres cumulating research and statistics to each one.
- May 2014: Created ORCID accounts for all HKU Professoriate staff.
- Mar 2014: Added "Invited Lectures & Keynote Speeches" to HKU ResearcherPages.

IR > CRIS
Wang, M

Profile
- Contact Information
- Professional Qualifications
- Honours, Awards & Prizes
- Professional Societies
- Media Contact Directory

Publications
- Articles (116)
- Conference Papers (350)
- Books (1)
- Books Edited (1)
- Book Chapters (12)

External Relations
- Invited Lectures & Keynote
- Speeches
- Editorship
- Community Service

Contact Information

Professor Wang, Min 王敏

Title:

Department:
Department of Mechanical Engineering

Faculty:
Faculty of Engineering

Office: HW 723

Tel: 2859 7903

Research Interests:
(click to check for cognate researchers)

- Composite materials
- Materials/systems for controlled release of drugs/biomolecules
- Surface engineering
- Nanotechnology
- Biomechanics
- In vitro and in vivo evaluation of biomaterials
- Biomedical materials (in various forms: single phase or composite, dense or porous, bulk or coating, particulate or fibrous, single crystals)
- Engineering ceramics
- Processing, structural characterisation and mechanical testing of materials (ceramic, metals, polymers, and composites)
- Tissue engineering
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Faculty: Faculty of Engineering

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- Processing, structural characterisation and mechanical testing of materials (ceramic, metals, polymers, and composites)
- Tissue engineering

My URLs:
- Personal Page
- Biography
- http://orcid.org/0000-0002-6495-5637

Also Cited As: Wang, M
# Collaborations

## Co-Authors

<table>
<thead>
<tr>
<th>Authors</th>
<th>No. of Publications</th>
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<tbody>
<tr>
<td>Tong, HW</td>
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<tr>
<td>Duan, B</td>
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<td>Wang, C</td>
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<tr>
<td>Sun, T</td>
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<tr>
<td>Lu, William Weijia</td>
<td>31</td>
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<td>Cheung, Wai Lam</td>
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<td>Li, S</td>
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<td>Bonfield, W</td>
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## Keywords in Publications

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<td>Tissue Engineering - methods</td>
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<td>Bone tissue engineering</td>
<td>10</td>
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<td>Selective laser sintering</td>
<td>10</td>
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<td>Bone Substitutes - chemistry</td>
<td>9</td>
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<tr>
<td>Hydroxyapatites - chemistry - radiation effects</td>
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<tr>
<td>Nanostructures - chemistry - radiation effects - ultrastructure</td>
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</table>

## Co-Investigators

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<thead>
<tr>
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<th>No. of Grants</th>
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<tr>
<td>Lu, William Weijia</td>
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<td>Chan, Barbara Pui</td>
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<tr>
<td>Ngan, Alfonso Hing Wan</td>
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<tr>
<td>So, Kwok Fai</td>
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</tbody>
</table>
Research Interests:
(click to check for cognate researchers)
Wang, M

Profile
- Contact Information
- Professional Qualifications
- Honours, Awards & Prizes
- Professional Societies
- Media Contact Directory

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- Office: HW 723

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  - Materials/systems for controlled release of drugs/biomolecules
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  - Biomechanics
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  - Biomedical materials (in various forms: single phase or composite, dense or porous, bulk or coating, particulate or fibrous, single crystals)
  - Engineering ceramics
  - Processing, structural characterisation and mechanical testing of materials (ceramic, metals, polymers, and composites)

Bibliometrics
- Internal Metrics
- Monthly Increases (480)
- External Metrics
- Monthly Increases (28)
### External Metrics

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</table>

288 publications indexed in the Hub. Of these:

- **Scopus**: 157 are found in Scopus, with 3278 citations
- **Web of Science**: 85 are found in WOS, with 2384 citations
- **PubMed**: 32 are found in PubMed, with 78 citations
- **CiteULike**: 14 are found in CiteULike, with 3 bookmarked
<table>
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<td>HK - Hong Kong</td>
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<td>HKU - The University of Hong Kong</td>
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<td>ASIA - Asia, other</td>
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<tr>
<td>JPN - Jpn, S.Kor &amp; Taiwan</td>
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<td>LA - Latin America</td>
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<td>OTH - Other &amp; undefined</td>
<td>6</td>
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<tr>
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<td><strong>15523</strong></td>
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Dear Hub Subscriber!

Statistics keep climbing! An attached file and a summary

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<th>URL</th>
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<td>6791</td>
<td>215</td>
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</table>

About The HKU Scholars Hub

The Hub is the institutional repository of The University of Hong Kong, the key vehicle at HKU to enable, show, and measure HKU KES, a free service.

Monthly email bibliometrics
**Professor Wang, Min 王敏**

**Title:** Professor

**Department:** Department of Mechanical Engineering

**Faculty:** Faculty of Engineering

**Tel:** 2859 7903

**Office:** HW 723

**Research Interests:**
- Composite materials
- Materials/systems for controlled release of drugs/biomolecules
- Surface engineering
- Nanotechnology
- Biomechanics
- In vitro and in vivo evaluation of biomaterials
- Biomedical materials (in various forms: single phase or composite, dense or porous, bulk or coating, particulate or fibrous, single crystals)
- Engineering ceramics
- Processing, structural characterisation and mechanical testing of materials (ceramic, metals, polymers, and composites).
- Tissue engineering

**My URLs:**
- Personal Page
- Biography
- [http://orcid.org/0000-0002-6495-5637](http://orcid.org/0000-0002-6495-5637)

**Also Cited As:** Wang, M
DISTINGUISH YOURSELF IN THREE EASY STEPS

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   Get your unique ORCID identifier Register now!
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   Enhance your ORCID record with your professional information and link to your other identifiers (such as Scopus or ResearcherID or LinkedIn).

3. USE YOUR ORCID ID
   Include your ORCID identifier on your Webpage, when you submit publications, apply for grants, and in any research workflow to ensure you get credit for your work.
Research Data Management
“The growing complexity surrounding compliance with funding agencies affords academic research libraries another opportunity for engagement with faculty. New data management rules will require grant recipients to more proactively and carefully plan for the storage, organization, description, and dissemination of their data...”

What is Research Data?

“... units of information observed, collected, or created during the course of research. This is not limited to scientific data; it includes social science statistical and ethnographic data, humanities texts, or any other data used or produced in the course of academic research, whether it takes the form of text, numbers, image, audio, video, models, analytic code or some yet-to-be-identified data type.”

Benefits of Sharing Research Data

• Ensure research integrity
• Ensure research data and records are accurate, complete, authentic and reliable
• Increase research impact
• Enhance data security and minimize the risk of data loss
• Prevent duplication of effort by enabling others to use your data
• Be accountable to public funding

Wan, Y.C., (2014), Research Data Management: What Are You Waiting For?
Who Manages Your Data?

When I am in the process of collecting data, media, or images for my research, I often organize or manage these data on my own... 80% - 100%

My university library manages or organizes my data, media, or images on my behalf 1-3
How valuable would you find each of the following possible sources of support for managing or preserving research data, media, or images?

<table>
<thead>
<tr>
<th>Source</th>
<th>Value Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>My university library</td>
<td>8-10: 50% 4-7: 25% 1-3: 25%</td>
</tr>
<tr>
<td>My university IT department</td>
<td>8-10: 50% 4-7: 25% 1-3: 25%</td>
</tr>
<tr>
<td>An AV or media support department at my institution</td>
<td>8-10: 50% 4-7: 25% 1-3: 25%</td>
</tr>
<tr>
<td>A disciplinary or departmental repository at my institution</td>
<td>8-10: 50% 4-7: 25% 1-3: 25%</td>
</tr>
<tr>
<td>A disciplinary repository at another institution</td>
<td>8-10: 50% 4-7: 25% 1-3: 25%</td>
</tr>
<tr>
<td>A publisher or a university press</td>
<td>8-10: 50% 4-7: 25% 1-3: 25%</td>
</tr>
<tr>
<td>A scholarly society</td>
<td>8-10: 50% 4-7: 25% 1-3: 25%</td>
</tr>
<tr>
<td>Freely available software</td>
<td>8-10: 50% 4-7: 25% 1-3: 25%</td>
</tr>
</tbody>
</table>
Research Data Management (RDM) Services

Store & Preserve – data backup and migration, retention period

Create - plan for data creation, such as format, storage; RDM advice

Access & Share – data citation, copyright, licensing

Organize – data files should be consistent; hierarchical

Advice, Support and Training

Wan, Y.C., (2014), Research Data Management: What Are You Waiting For?
Library Support for Data Management at HKU

• “Policy on the Management of Research Data and Record”, endorsed by the University Research Committee and Senate

• HKU Libraries is a key partner in developing and implementing the University’s research data management policy

• Will upgrade the University’s institutional repository, the Scholars Hub, to store and preserve research data centrally

• Will describe research data with consistent metadata

• Will provide researchers with access to training, support and advice

• Recruited a “Research and Data Services Librarian”
The Final Word
Because scholarly material is available electronically, universities should redirect the money spent on library buildings and staff to...

Because faculty have easy access to academic content online, the role librarians play at this institution is becoming much less important.

The primary responsibility of my university library should be facilitating my access to any scholarly materials in print or digital form...

The primary responsibility of my university library should be supporting undergraduate student learning by helping students to develop...

How well does each statement below describe your point of view.

- 8-10
- 4-7
- 1-3


The University of Hong Kong, (2013), *Quick Stats*, http://www.cpaio.hku.hk/qstats/

