Using Journal and Patent Data to Support University-Industry Partnerships

SUNY Corporate Engagement Boot Camp
October 2017

Michael Bragg
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Powerful Journal Publication Analytics to Support University-Industry Collaboration
Data Source: InCites Benchmarking and Analytics

**WEB OF SCIENCE CORE COLLECTION**
Science Citation Index-Expanded
Social Sciences Citation Index
Arts & Humanities Citation Index
Conference Proceedings Citation Index
Book Citation Index

INCITES: BENCHMARKING & ANALYTICS

A citation index of over 66 million publication records from 18,000 journals covering all disciplines.
Academic System Comparison: % papers with industry collaboration, 1996-2017

**SUNY: 3.3% 2013-2017**
SUNY System: top 10 corporate collaborators, 2010-17

Ranked clockwise by # coauthored papers

Source: InCites
SUNY System: top industry collaborators, 2010-2017

- Ranked clockwise by # coauthored papers
- Indicator shown is Category Normalized Citation Impact (CNCI)

Source: InCites
SUNY Binghamton: top industry collaborators, 2010-2017

- Ranked clockwise by # coauthored papers
- Indicator shown is Category Normalized Citation Impact (CNCI)

Source: InCites
### SUNY Binghamton: top collaborators with IBM, 2010-2017

Identify faculty who are working extensively with companies

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Affiliation</th>
<th>Web of Science Documents</th>
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<tr>
<td>Sammakia, Bahgat</td>
<td>1</td>
<td>State University of New York (SUNY) Binghamton</td>
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<td>Gao, Tianyi</td>
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<td>Sammakia, Bahgat G.</td>
<td>3</td>
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<td>Murray, Bruce</td>
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<td>Geer, James</td>
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<td>Nemati, Kourosh</td>
<td>5</td>
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<tr>
<td>Alioca, Husam A.</td>
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<td>State University of New York (SUNY) Binghamton</td>
<td>9</td>
</tr>
</tbody>
</table>

Source: InCites
SUNY System: top corporate funders, 2010-17

- Circle size = # funded papers
- X-axis = % hot papers
- Y-axis = % highly cited papers

Source: InCites
University of Michigan System: top corporate funders, 2010-17

- Circle size = # funded papers
- X-axis = % hot papers
- Y-axis = % highly cited papers

Source: InCites

- Bristol Myers Squibb
Powerful **Patent** Analytics to Support University-Industry Collaboration
Data Source: Derwent World Patents Index (DWPI)

Derwent World Patents Index (DWPI)

DWPI Titles & Bibliographic Data

DWPI Abstract

1. English language abstracts for all patents
2. Industry standard terminology
3. DWPI Abstract: Series of short paragraphs that discuss separate aspects of the invention

Derwent
Powering IP Innovation

SUNY Published Applications and Grants by Year

Source: Derwent Innovation
SUNY Patent Portfolio by Category and Year

Source: Derwent Innovation
SUNY Patent Portfolio: Snapshot of Topics

International Patent Classification System: Catchwords

Source: Derwent Innovation
SUNY Patent Portfolio: Top 15 Corporate Assignees, 2007-2017

Source: Derwent Innovation
SUNY Patent Example: Toyota and Audi

**United States Patent**

Zhong et al.

**Patent No.:** US 9,548,501 B2  
**Date of Patent:** Jan. 17, 2017

**Inventors:** Chuan-Juin Zhong, Endwell, NY (US);  
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Audi AG, Ingolstadt (DE)

**Abstract:**

A supported catalyst is prepared by a process that includes establishing shell-removal conditions for a supported catalytic composition according to a predetermined schedule. The catalytic composition includes a supported metal component (e.g., platinum or palladium) and a support component (e.g., carbon). The catalyst is then used in a hydrocarbon transformation process, such as steam reforming, utilizing the modified catalyst for enhanced performance.

**Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 78 days.

**References Cited**

**U.S. PATENT DOCUMENTS**

4,970,128 A 11/1990 Itoh et al.  
5,024,905 A 6/1991 Itoh et al.

**FOREIGN PATENT DOCUMENTS**

EP 0 129 390 A1 12/1984  
EP 0 555 535 A 8/1993

**Other Publications**


**Primary Examiner —** Melissa Swain  
**Assistant Examiner —** Melissa Studders  
**Attorney, Agent, or Firm —** Seed IP Law Group LLP

**U.S. Classification:**  
H01M 4/921 (2013.01); H01M 4/9083 (2013.01); H01M 4/926 (2013.01)

**Field of Classification Search**

USPC ......................................... 502/185  
See application file for complete search history.
Thank you

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