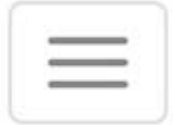


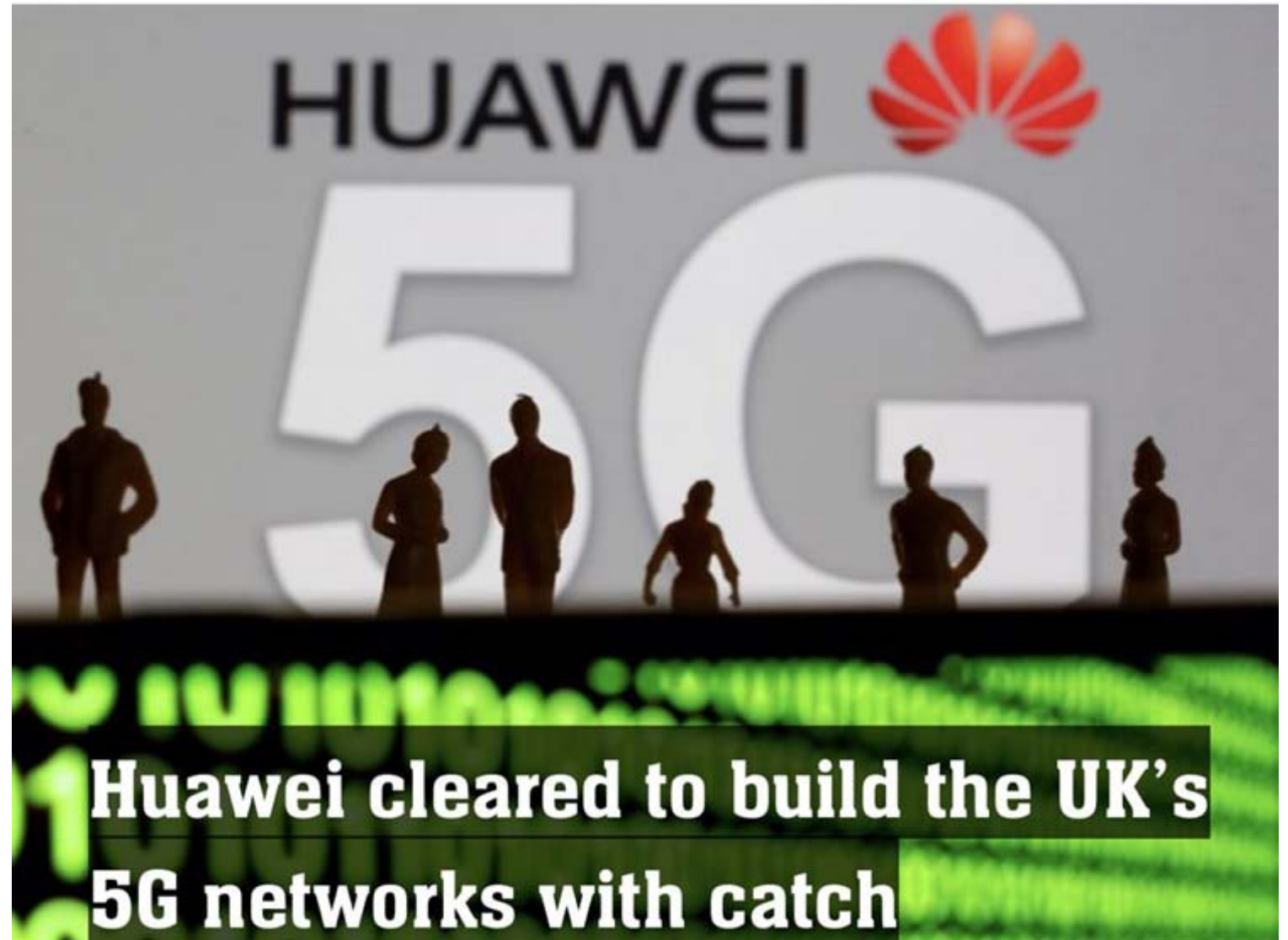
Celebrating 50 Year of Inspec as an Electronic Resource

主讲人：Richard Simms

IET Product Specialist



1567
co-occurring
control terms



The Institution of Engineering & Technology

- IET英国工程技术学会是成立于1871年的学术团体
- 欧洲最大的专业工程学会
 - 主要出版
 - 期刊，图书，会议录，多媒体
- 二次文献出版
 - 文献题录数据库
 - Inspec



IET OA Journals in China

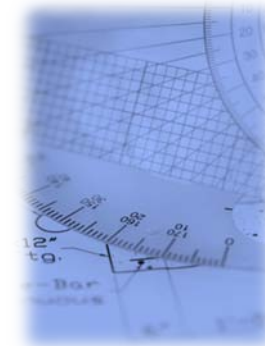
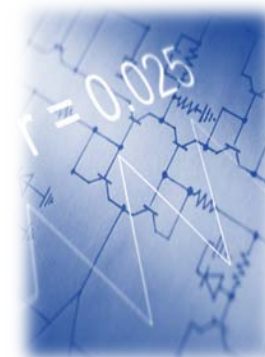
Cognitive Computation and Systems	清华大学	2019
IET Cyber-systems and Robotics	浙江大学	2019
IET Energy Systems Integration	天津大学	2018
IET Collaborative Intelligent Manufacturing	华中科技大学	2018
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(110 years including print)

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Inspec Database Key Features

质量和信誉

专注

全面的内容和覆盖

智慧的选择

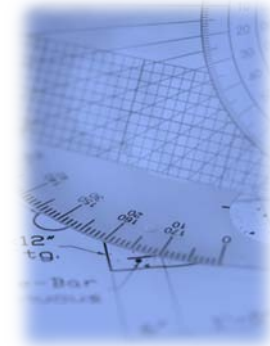
由工程师为工程师挑选

智慧的分类与索引

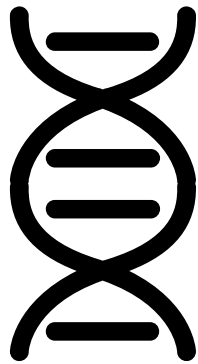
学科专家

始终如一

逐渐发展



物理学



9.84 million

电气与电子工程



7.1 million

计算机与控制工程



5.3 million

信息技术



113K

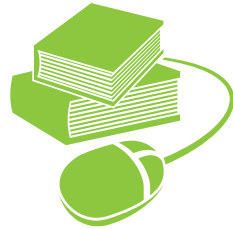
生产，制造与机械工程



2.1 million

18.61M

records 2019年5月



- 2018年新增85万条记录
- 来自500余家出版机构，超过4500种期刊和3000多种其他类型出版物
- Preprint from ArXiv
- 10000+ videos

1969 To date



- Or 1898 with the Archive

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Inspec – Record记录

Fabrication of all-solid-state thin-film secondary cells using hexacyanometallate-based electrode materials

Author(s): Eftekhari, A.¹

Affiliation(s): 1. Electrochem. Res. Center, Tehran, Iran

Journal: *Journal of Power Sources*, vol.132, no.1-2, p.291-5

Publication Date: 20 May 2004

Publisher: Elsevier, Switzerland

ISSN: 0378-7753 (print)

JIN: J276

CODEN: JPSODZ

SICI: 0378-7753(20040520)132:1/2L:291:FSST;1-D

CCCC: 0378-7753/04/\$30.00

DOI: 10.1016/j.jpowsour.2004.01.002

Language: English

Abstract: All-solid-state thin-film secondary cells were prepared using transition metal hexacyanometallates as anode and cathode materials. Two different approaches are employed to prepare highly stable films of the electroactive materials viz. using aluminum substrate as a current collector and deposition under centrifugal forces. At the first stage, the cell design is examined for a well-known case, Prussian blue (PB) secondary cell. The experimental results are indicative of the fact that the cell properties such as its charge/discharge behavior, specific capacity, cyclability, and coulombic efficiency are significantly improved. At the second state, the cell design proposed was successfully used to fabricate a high-voltage secondary cell based on chromium hexacyanochromate (CrHCC) anode and Prussian blue (PB) cathode. Then, eight unit cells were connected in series to prepare a rechargeable battery with an operating voltage of ca. 20 V. Thus, the results are of interest for the preparation of microbatteries with specified properties.

Treatment: Practical; Experimental

Controlled indexing: [aluminium](#); [chromium compounds](#); [dyes](#); [electrochemical electrodes](#); [electrodeposits](#); [organic compounds](#); [secondary cells](#); [substrates](#); [thin films](#);

Uncontrolled indexing: solid-state thin-film secondary cells; thin-film electrode; microbattery; electrode materials; electroactive materials; charge/discharge behavior; specific capacity; cyclability; coulombic efficiency; aluminum substrate; current collector; centrifugal force deposition; chromium hexacyanochromate anode; Prussian blue cathode; Al

Classification: [A8630F](#) Secondary cells ; [A8245](#) Electrochemistry and electrophoresis ; [B8410E](#) Secondary cells

IPC: [C09B](#) Organic dyes or closely-related compounds for producing dyes; Mordants; Lakes ; [C25B11/00](#) Electrodes;

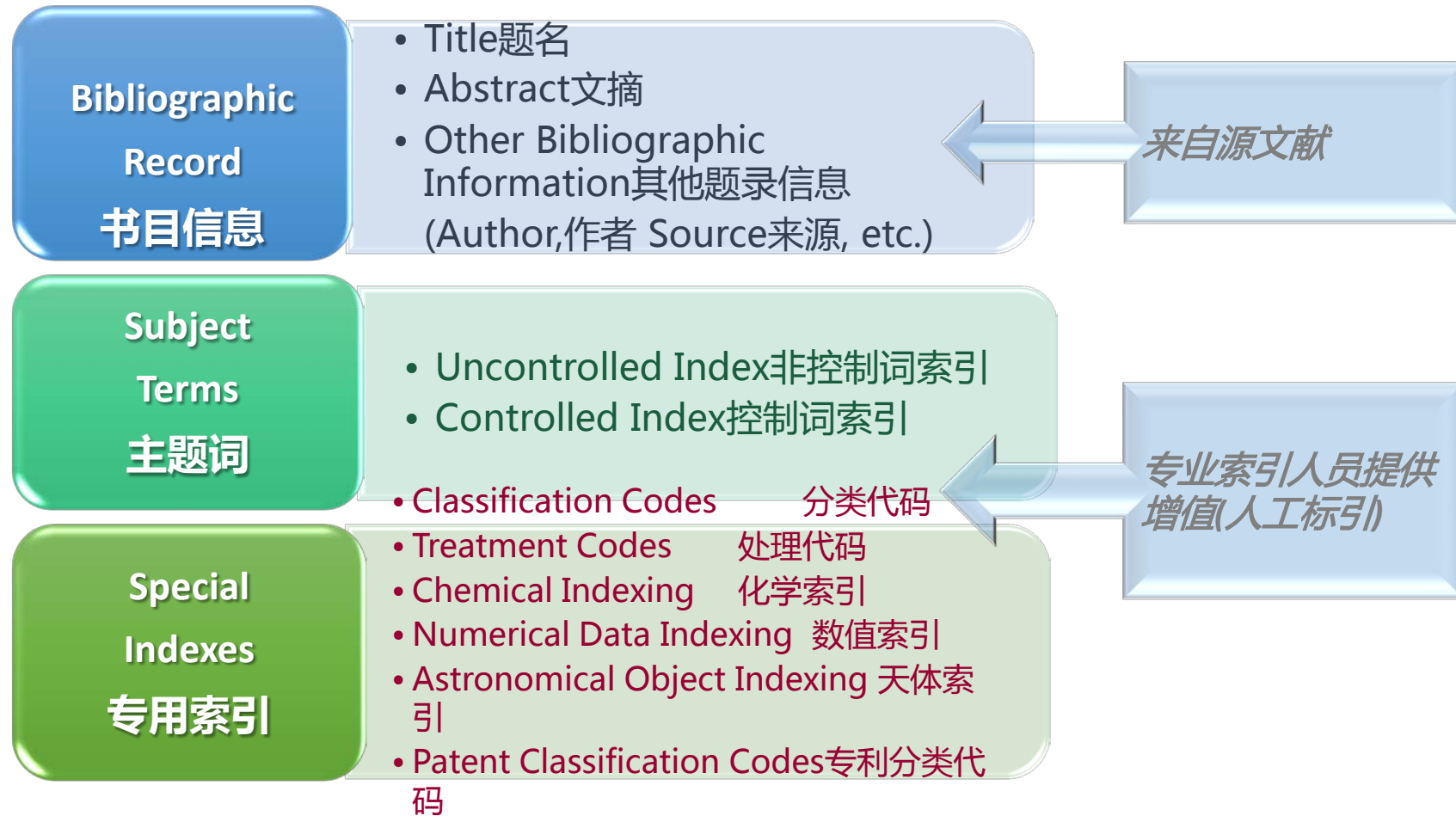
Manufacture thereof not otherwise provided for ; [C25D17/10](#) Electrodes ; [H01M4/00](#) Electrodes ; [H01M10/00](#) Secondary cells;

Manufacture thereof

Chemical indexing: Al/int Al/el



Inspec: Record Breakdown

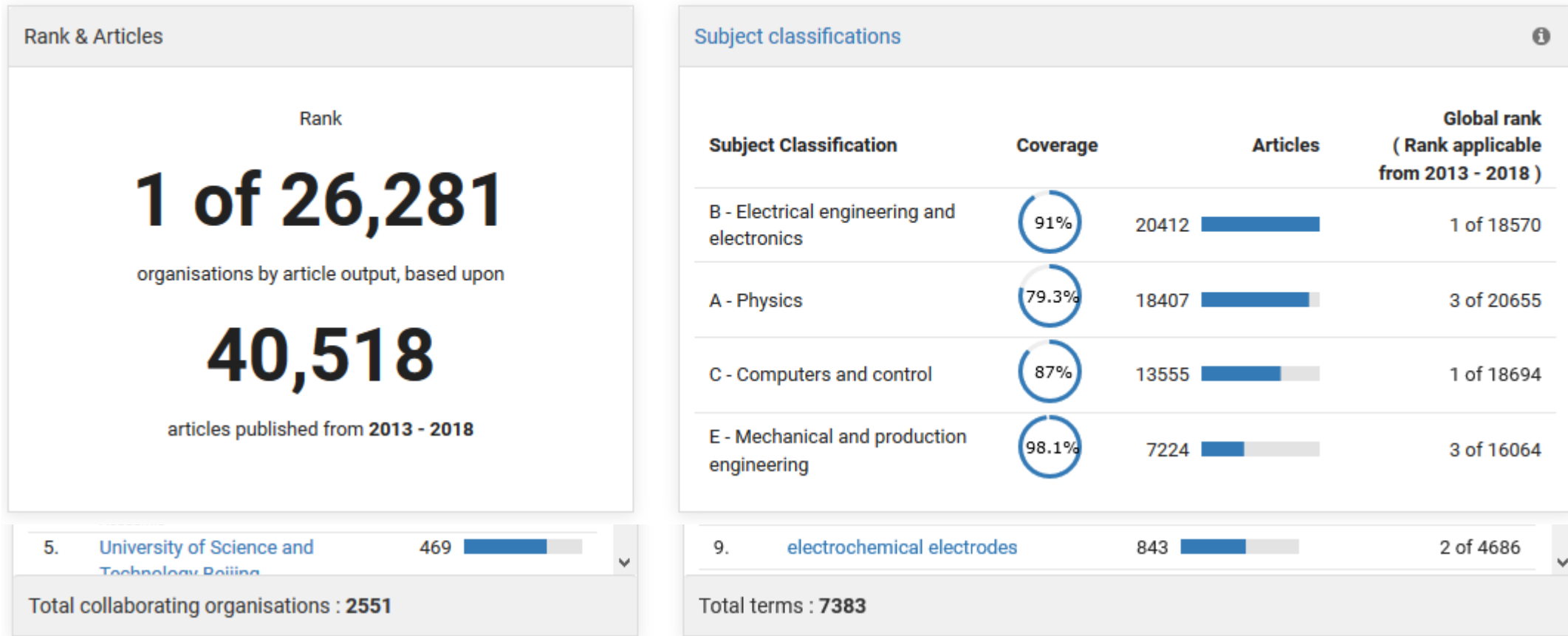


Inspec Analytics

Inspec Analytics是一个信息分析工具，使得管理人员和资深教师能够找到如下复杂问题的答案：

- 某机构在特定领域的科研产出有哪些？
- 特定研究领域最多产的机构？作者？期刊？
- 特定院校的相对优劣之所在？
- 我们可以研究哪些新的领域？
- 我们应该和谁，可以和谁就某个特定课题进行合作？
- 要了解某一学科，应该订阅哪些期刊，参加哪些学术会议
- 我们在某一学科领域的全球学术排名如何？怎样提高我们的排名

Tsinghua University Organisation Analysis



Concept Page Analysis Learning (Artificial Intelligence)

Related controlled terms

Broader terms ⓘ

[artificial intelligence](#)

Total terms : 1

Related Subject classifications

Subject classifications ⓘ

[C1230L - Learning in AI](#)

[C1240 - Adaptive system theory](#)

[C5290 - Neural computing techniques](#)

[C6170K - Knowledge engineering techniques](#)

Total classifications : 4

Related terms ⓘ

[adaptive resonance theory](#)

[Boltzmann machines](#)

[decision trees](#)

[feature selection](#)

[feedforward neural nets](#)

[granular computing](#)

[Hopfield neural nets](#)

[image annotation](#)

Total terms : 19

Citation Analysis
will be available as well

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25,000

Organisations

3,600

Subject classifications

10,000

Controlled terms



The Institution of
Engineering and Technology

敬请莅临

- 2019年5月17日11:30-12:10
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- INSPEC与INSPEC Analytics

梁奔

bliang@theiet.org

