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打開資源新視野 掌握研究脈動

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# 科學研究需要不斷做決定。。。。



## 內容

- 如何全面掌握研究背景與變化趨勢
- 如何選擇優秀期刊發表研究成果
- 如何利用作者專屬研究檔案，讓研究看的見



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Physical Sciences 12,263	<b>23,507</b> Peer-reviewed journals	<b>106K</b> Conference events	<b>613</b> Book series
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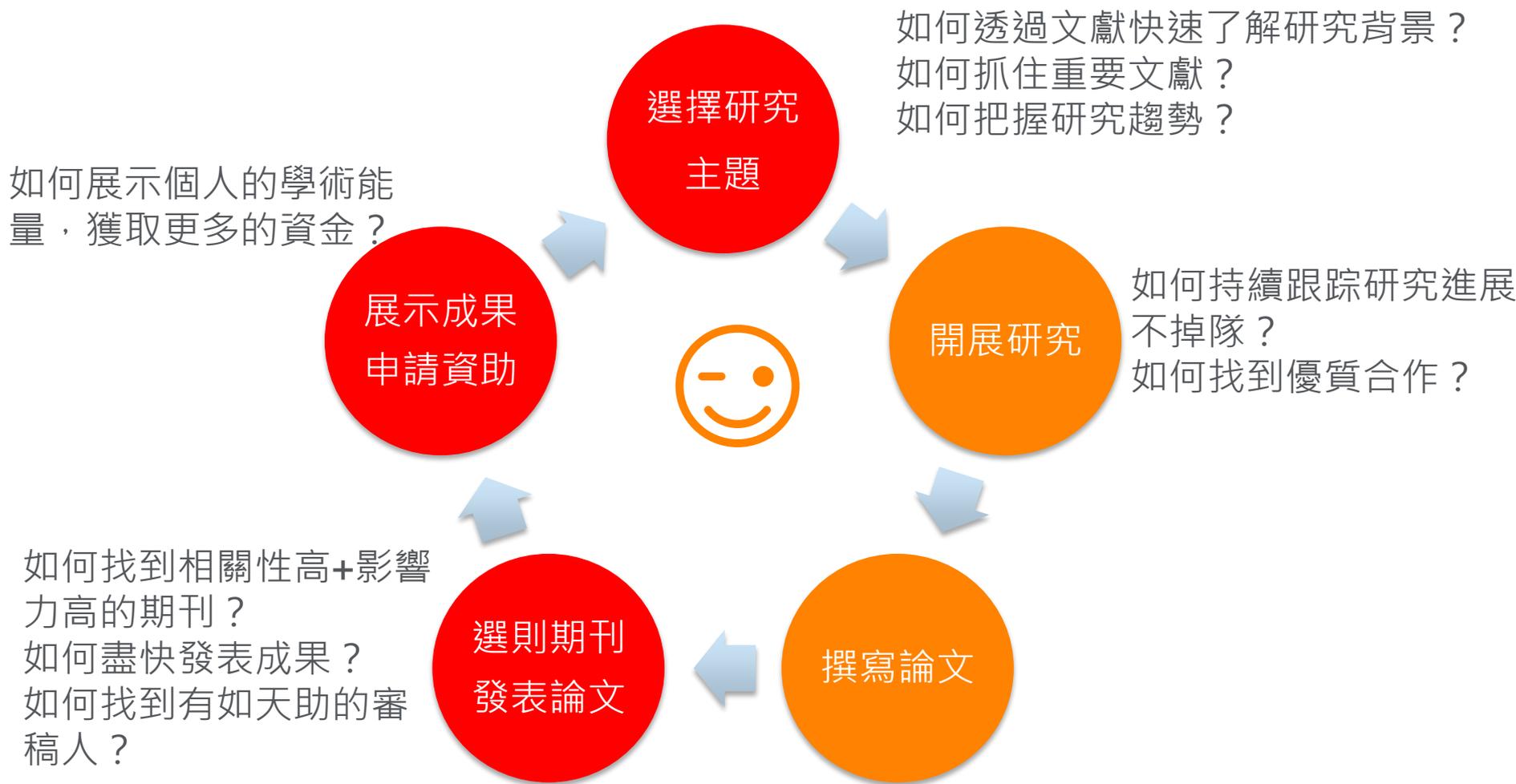
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# 這個領域怎樣？要不要去研究？

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搜尋

例如: "Cognitive architectures" AND robots

&gt; 限制

**23,237 篇文獻搜尋結果****關鍵詞輕鬆檢索2萬+論文**

聚焦至350+  
Review

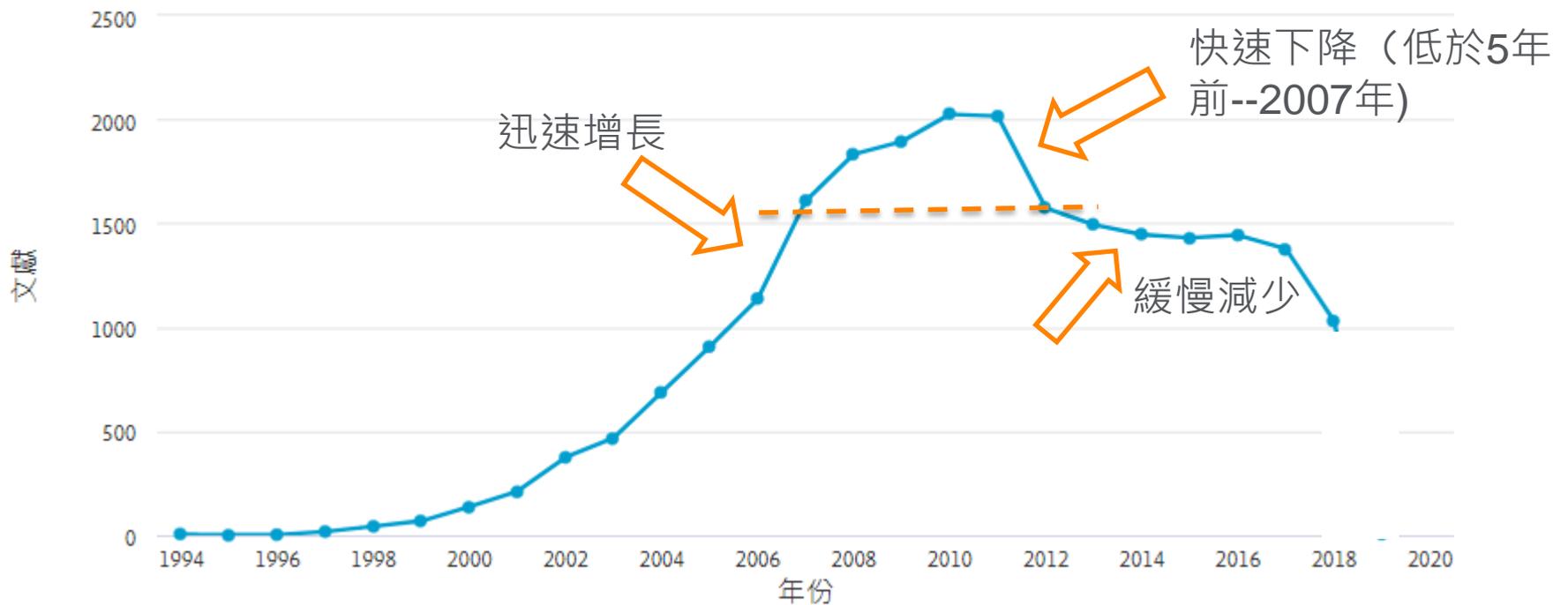
× [文獻名稱、摘要、關鍵詞](#)學科類別 文獻類型  Article (18,702) > Conference Paper (3,635) > Review (356) > Book Chapter (194) > Conference Review (113) >[查看更多](#)來源出版物名稱 關鍵字 機構 Funding sponsor [國家/地區](#) 

## 查閱Review

- 快速掌握研究進程和主要成果
- 發現待解決的問題
- 發現可能的解決方案

## 要不要去研究？--從論文數量看發展趨勢

按年份劃分的文獻



# 要朝哪個方向去突破? --看主題分佈，了解研究重點

篩選 關鍵字

篩選: # of results v x

- |   |   |   |  |
|---|---|---|--|
| <input type="checkbox"/> Single-walled Carbon Nanotubes (SWCN) (15,153) > | <input type="checkbox"/> Methodology (699) >                    | <input type="checkbox"/> Semiconductor (435) >                    | <input type="checkbox"/> Electrophoresis (336) >       |
| <input type="checkbox"/> Carbon Nanotubes (11,641) >                      | <input type="checkbox"/> Functionalized (692) >                 | <input type="checkbox"/> Binding Energy (433) >                   | <input type="checkbox"/> Electric Fields (331) >       |
| <input type="checkbox"/> Yarn (5,049) >                                   | <input type="checkbox"/> Mechanical Properties (691) >          | <input type="checkbox"/> Elasticity (431) >                       | <input type="checkbox"/> Chemical Sensors (326) >      |
| <input type="checkbox"/> Nanotubes (4,558) >                              | <input type="checkbox"/> Thin Films (690) >                     | <input type="checkbox"/> Piezoelectric Moduli (429) >             | <input type="checkbox"/> Biosensing Techniques (325) > |
| <input type="checkbox"/> Carbon Nanotube (4,064) >                        | <input type="checkbox"/> Computational Simulations (689) >      | <input type="checkbox"/> Materials Testing (428) >                | <input type="checkbox"/> Dispersion (323) >            |
| <input type="checkbox"/> Carbon (4,003) >                                 | <input type="checkbox"/> Molecular Dynamics Simulations (669) > | <input type="checkbox"/> X Ray Photoelectron Spectroscopy (423) > | <input type="checkbox"/> Silicon (323) >               |
| <input type="checkbox"/> Article (3,872) >                                | <input type="checkbox"/> Synthesis (chemical) (667) >           | <input type="checkbox"/> Gold (420) >                             | <input type="checkbox"/> Reinforcement (322) >         |
| <input type="checkbox"/> Nanotubes, Carbon (2,670) >                      | <input type="checkbox"/> Dispersions (653) >                    | <input type="checkbox"/> Biosensors (416) >                       | <input type="checkbox"/> Solutions (320) >             |
| <input type="checkbox"/> Nanocomposites (1,967) >                         | <input type="checkbox"/> Particle Size (648) >                  | <input type="checkbox"/> Thermogravimetric Analysis (416) >       | <input type="checkbox"/> Solvents (319) >              |
| <input type="checkbox"/> Chemistry (1,930) >                              | <input type="checkbox"/> Surface Property (629) >               | <input type="checkbox"/> Electrical Conductivity (414) >          | <input type="checkbox"/> Conformation (314) >          |
| <input type="checkbox"/> Single-walled Carbon (1,925) >                   | <input type="checkbox"/> Nanotube (607) >                       | <input type="checkbox"/> Composite Materials (408) >              | <input type="checkbox"/> Solubility (312) >            |
|   | <input type="checkbox"/> Chirality (599) >                      | <input type="checkbox"/> Electrode (407) >                        | <input type="checkbox"/> Chemical Bonds (309) >        |
|   | <input type="checkbox"/> Electronic (504) >                     |   | <input type="checkbox"/> Doping (additives) (309) >    |
|   |   |   | <input type="checkbox"/> Thin Film (308) >             |

再次聚焦

限制範圍 排除

# 要讀哪些論文? --抓關鍵論文

23,237 篇文獻搜尋結果

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文獻標題	作者	年份
1 Nanotube molecular wires as chemical sensors	Kong, I., Franklin, N.R., Zhou, C.,	2000
2 nanoribbon semiconductors	S., Dai, H.	8
3 Storage of hydrogen in single-walled carbon nanotubes	Dillon, A.C., Jones, K.M., Bekkedahl, T.A., (...), Bethune, D.S., Heban, M.J.	1997

精簡搜尋結果

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年份

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文獻類型

- Article (18,677) >
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來源出版物名稱 (A-Z)

- 最新論文--最新進展
- 高引用論文--技術突破，重要成果

## 「引用資訊」分析論文價值

文獻	引用次數	<2014	2014	2015	2016	2017	2018	小計	>2018	總計
		Total	5981	5485	5397	5261	5029			
<input type="checkbox"/> 21 Gas diffusion, energy transport, and thermal accommodation i...	2012	8	6	11	9	10	9	45		53
<input type="checkbox"/> 22 Highly transparent and conductive stretchable conductors bas...	2012	6	8	26	14	19	10	77		83
<input type="checkbox"/> 23 Research on the elastic modulus of single-walled carbon nano...	2012							0		0
<input type="checkbox"/> 24 The reinforced hydrogel for drug loading: Immobilization of ...	2012	2	5	2	3		1	11		13
<input type="checkbox"/> 25 Diameter effect on the sidewall functionalization of single-...	2012	3		2	2	4	1	9		12
<input type="checkbox"/> 26 Effect of doping on single-walled carbon nanotubes network o...	2012	2		2	1	2	2	7		9
<input type="checkbox"/> 27 Carbon nanotubes press-transferred on PMMA substrates as exc...	2012	2	7	11	6	10	4	38		40
<input type="checkbox"/> 28 Flexible, transparent electrodes using carbon nanotubes	2012		4	1	5	2	2	14		14
<input type="checkbox"/> 29 Inactivation of Bacillus anthracis spores by single-walled c...	2012	1	5	4	2	4	1	16		17
<input type="checkbox"/> 30 Processing and characterisation of two- ar				1				1		1
<input type="checkbox"/> 31 Application of single walled carbon nanoti			3	6	4	2	5	20		25
<input type="checkbox"/> 32 Carbon nanotube-based antimicrobial biomaterials formed via ...	2012	5	7	10	3	7	3	30		35
<input type="checkbox"/> 33 A seamless three-dimensional carbon nanotube graphene hybrid...	2012	22	41	61	45	56	39	242	1	265
<input type="checkbox"/> 34 Ion adsorption on the inner surface of single-walled carbon ...	2012	3	2		5	2		9		12
<input type="checkbox"/> 35 A facile route for 3D aerogels from nanostructured 1D and 2D...	2012	7	15	21	19	23	11	89	1	97
<input type="checkbox"/> 36 Flexible single-walled carbon nanotube/polycellulose papers ...	2012	2	7	4	6	2	2	21		23
<input type="checkbox"/> 37 Porous carbon nanotube membranes for separation of H<inf>2</inf>...	2012	5	6	7	11	7	2	33		38
<input type="checkbox"/> 38 Supramolecular composite of single-walled carbon nanotubes w...	2012							0		0

從每年的引用概覽，精確識別近年被引頻次較高的文獻

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Nature Communications 開放存取  
Volume 3, 2012, 論文編號 1225

### A seamless three-dimensional carbon nanotube graphene hybrid material (Article) (開放存取)

Zhu, Y.<sup>a,b</sup>, Li, L.<sup>a</sup>, Zhang, C.<sup>a,c</sup>, Casillas, G.<sup>a</sup>, Sun, Z.<sup>a</sup>, Yan, Z.<sup>a</sup>, Ruan, G.<sup>a</sup>, Peng, Z.<sup>a</sup>, Raji, A.-R.O.<sup>a</sup>, Kittrell, C.<sup>a,b</sup>, Hauge, R.H.<sup>a,b</sup>, Tour, J.M.<sup>a,b,e</sup>

<sup>a</sup>Department of Chemistry, Rice University, Houston, TX 77005, United States

<sup>b</sup>Richard E. Smalley Institute for Nanoscale Science and Technology, Rice University, 6100 Main Street, Houston, TX 77005, United States

<sup>c</sup>School of Materials Science and Engineering, Tianjin University, No. 92 Weijin Road, Tianjin 300072, China

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### 摘要

Graphene and single-walled carbon nanotubes are carbon materials that exhibit excellent electrical conductivities and large specific surface areas. Theoretical work suggested that a covalently bonded graphene/ single-walled carbon nanotube hybrid material would extend those properties to three dimensions, and be useful in energy storage and nanoelectronic technologies. Here we disclose a method to bond graphene and single-walled carbon nanotubes. The hybrid material exhibits a surface area >2,000 m<sup>2</sup>g<sup>-1</sup> with ohmic contact from the vertically aligned single-walled carbon nanotubes. Using scanning transmission electron microscopy, we observed the covalent transformation of sp<sup>2</sup> carbon to sp<sup>3</sup> carbon at the atomic resolution level. These findings provide a new benchmark for understanding the three-dimensional carbon nanotube-graphene hybrid material. © 2012 Macmillan Publishers Limited. All rights reserved.

參考文獻 (31)

- 全部
- 1 Geim, A.K.  
Grapher  
(2009) *Sci*  
doi: 10.111:  
[Full Text](#) [View at Publisher](#)
- 2 Geim, A.K., Novoselov, K.S.  
The rise of graphene  
(2007) *Nature Materials*, 6 (3), pp. 183-191. 被引用 24025 次.  
doi: 10.1038/nmat1849  
[Full Text](#) [View at Publisher](#)
- 3 Bethune, D.S., Kiang, C.H., De Vries, M.S., Gorman, G., Savoy, R., Vazquez, J., Beyers, R.  
Cobalt-catalysed growth of carbon nanotubes with single-atomic-layer walls  
(1993) *Nature*, 363 (6430), pp. 605-607. 被引用 3056 次.  
doi: 10.1038/363605a0  
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被 265 篇文獻引用

Molecular dynamics simulation of double-layered graphene-carbon nanotube junctions for thermal rectification  
Yang, X., Xu, J., Wu, S.  
(2012) *Materials Letters*

## Citation

## 了解該研究的後續發展

# Scopus® 實現從論文直達相關研究領域

Journal of Neural Engineering

Volume 14, Issue 2, 22 February 2017, 论文编号 026015

## The hybrid BCI system for movement control by combining motor imagery and moving onset visual evoked potential (Article)

Ma, T.<sup>a</sup>, Li, H.<sup>a</sup>, Deng, L.<sup>a</sup>, Yang, H.<sup>a</sup>, Lv, X.<sup>a</sup>, Li, P.<sup>a</sup>, Li, F.<sup>a</sup>, Zhang, R.<sup>c</sup>, Liu, T.<sup>a,b</sup>, Yao, D.<sup>a,b</sup> ✉, Xu, P.<sup>a,b</sup> ✉ 🔍

<sup>a</sup>Key Laboratory for NeuroInformation, Ministry of Education, School of Life Science and Technology, University of Electronic Science and Technology of China, 4, S North Jianshe Road, Chengdu, 610054, China

<sup>b</sup>Center for Information in BioMedicine, University of Electronic Science and Technology of China, Chengdu, 610054, China

<sup>c</sup>School of Electrical Engineering, Zhengzhou University, Zhengzhou, 450001, China

### 摘要

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**Objective.** Movement control is an important application for EEG-BCI (EEG-based brain-computer interface) systems. A single-modality BCI cannot provide an efficient natural control strategy, but a hybrid BCI system that combines two or more different tasks can effectively overcome the drawbacks encountered in single-modality Approach. In the current paper, we developed a new hybrid BCI system by combining MI (motor imagery) and mVEP (motion-onset visual evoked potential), aiming more efficient 2D movement control of a cursor. **Main result.** The offline analysis demonstrates that the hybrid BCI system proposed in this paper could evoke the d mVEP signal features simultaneously, and both are very close to those evoked in the single-modality BCI task. Furthermore, the online 2D movement control experiment that the proposed hybrid BCI system could provide more efficient and natural control commands. **Significance.** The proposed hybrid BCI system is compensative to efficient 2D movement control for a practical online system, especially for those situations in which P300 stimuli are not suitable to be applied. © 2017 IOP Publish

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Topic: Brain computer interface | Electroencephalography | steady-state visual

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Brain computer interface | Electroencephalography | steady-state visual (T.23)

Year range: 2013 - 2017

### Representative documents

Quadcopter control in three-dimensional space using a noninvasive motor imagery-based brain-computer interface

Lafleur, K.,Cassady, K.,Doud, A....

(2013) *Journal of Neural Engineering*

Cited 181 times

Frequency recognition in ssvep-based BCI using multiset canonical correlation analysis

Zhang, Y.,Zhou, G.,Jin, J....

(2014) *International Journal of Neural Systems*

Cited 129 times

High-speed spelling with a noninvasive brain-computer interface

Chen, X.,Wang, Y.,Nakanishi, M....

(2015) *Proceedings of the National Academy of Sciences of the United States of America*

Cited 126 times

Visual and auditory brain-computer interfaces

Gao, S.,Wang, Y.,Gao, X....

(2014) *IEEE Transactions on Biomedical Engineering*

Cited 122 times

### Top authors

Kübler, Andrea K.

Jin, Jing

Zhang, Yu

Guan, Cuntai

Wang, Xingyu

### Scholarly Output

49

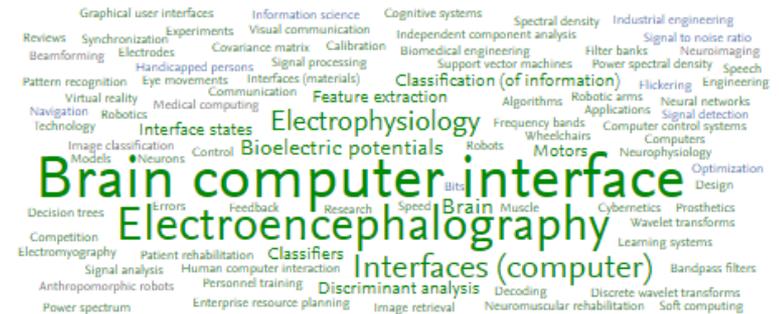
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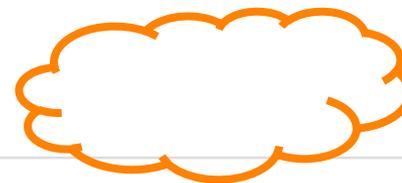
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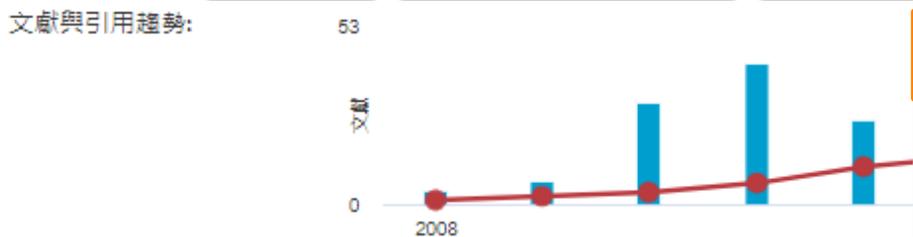
### Khan, Muhammad Khurram

King Saud University, Center of Excellence in Information Assurance (CoEIA), Riyadh, Saudi Arabia  
 作者 ID: 8942252200

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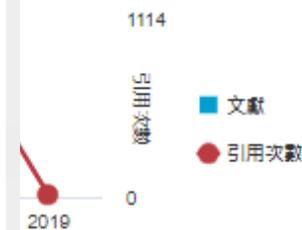
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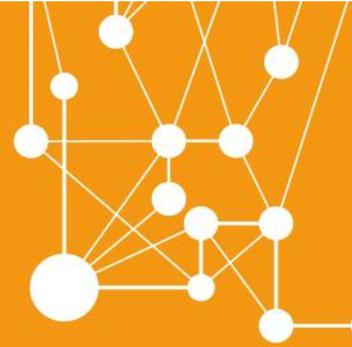
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年份 來源出版

g, J., Franklin, N.R., Zhou, C., 2000 Science  
Cho, K., Dai, H. 287(5453),

Li, Wang, X., Zhang, L., Lee, S., 2008 Science  
H. 319(5867),

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ENER	Energy
ENVI	Environmental Science
EART	Earth and Planetary Sciences
AGRI	Agricultural and Biological Sciences
BIOC	Biochemistry, Genetics and Molecular Biology
IMMU	Immunology and Microbiology
VETE	Veterinary
MEDI	Medicine
PHAR	Pharmacology, Toxicology and Pharmaceutics
HEAL	Health Professions
NURS	Nursing
DENT	Dentistry
NEUR	Neuroscience
ARTS	Arts and Humanities
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BUSI	Business, Management and Accounting
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DECI	Decision Sciences
MULT	Multidisciplinary

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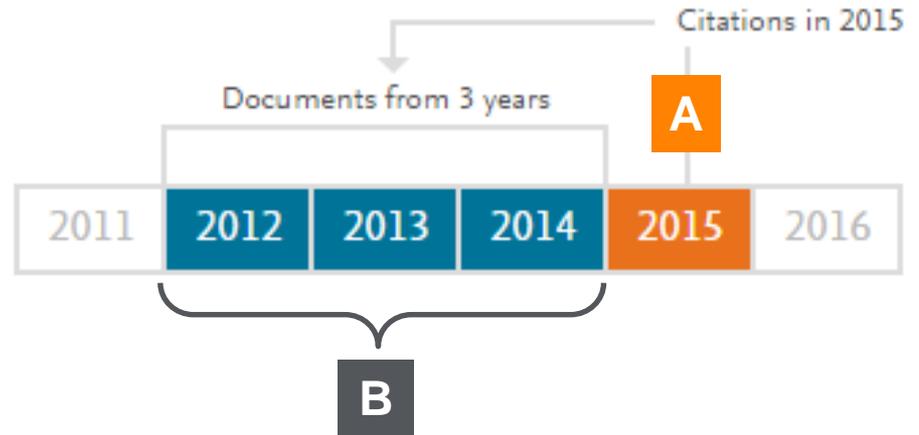
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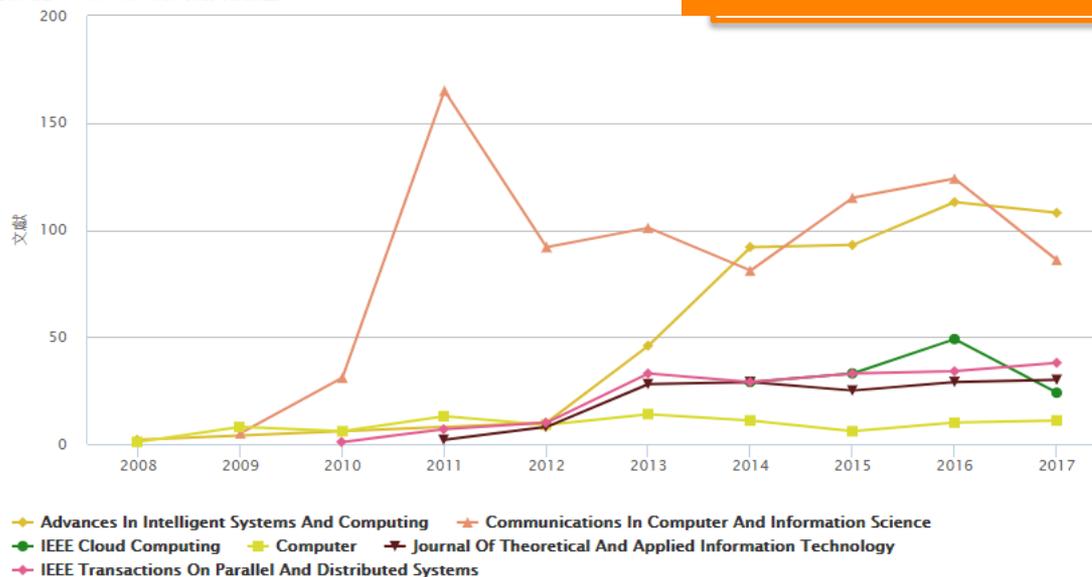
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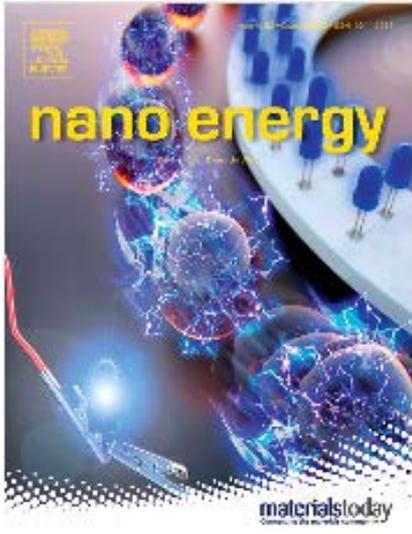
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Nano Energy  
Volume 1, Issue 1, January 2012, Pages 107-131

Graphene/metal oxide composite electrode materials for energy storage (Review)

Wu, Z.-S.<sup>1,2</sup>, Zhou, G.<sup>3</sup>, Yin, L.-C.<sup>3</sup>, Ren, W.<sup>3</sup>, Li, F.<sup>3</sup>, Cheng, H.-M.<sup>3</sup>

<sup>1</sup>Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, 72 Wenhua  
<sup>2</sup>Max Planck Institute for Polymer Research, Ackermannweg 10, 55128 Mainz, Germany

### 摘要

Recent progress on graphene/metal oxide composites as advanced electrode materials in lithium ion batteries (LIBs) and highlighting the importance of synergistic effects between graphene and metal oxides and the beneficial role of graphene is when the composites are used as electrode materials for LIBs and ECs, compared to their individual constituents, graphene variables such as anchored, wrapped, encapsulated, sandwich, layered and mixed models have a significant improvement in high rate capability and excellent cycling stability. First, an introduction on the properties, synthesis strategies and use of graphene on the preparation of graphene/metal oxide composites and their electrochemical properties in LIBs and ECs. Finally graphene/metal oxide composites for energy storage are discussed. © 2011 Elsevier Ltd.

Title

Abstract

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Hydrothermal synthesis of macroscopic nitrogen-doped graphene hydrogels for ultrafast supercapacitor

Paper abstract

Nitrogen-doped graphene has been a recent research focus. It is crucial to further utilize the excellent properties of graphene macroscopic assemblies. Herein, we first report a unique and convenient hydrothermal process for controlled synthesis and structural adjustment of the nitrogen-doped graphene hydrogel (GN-GH), which can be readily scaled-up for mass production of nitrogen-doped graphene hydrogel by using organic amine and graphene oxide as precursors. The organic amine is not only as nitrogen sources to obtain the nitrogen-doped graphene but also as an important modification to control the assembly of graphene sheets in the 3D structures. Inner structure of the GN-GHs and the content of nitrogen in the graphene are easily adjusted by organic amine. Interestingly, it has been found that the supercapacitor performance of the typical product could be remarkably enhanced. Even at an ultrafast charge/discharge rate of 185.0 A/g, a high power density of 205.0 kW/kg can be obtained. In addition, at a current density of 100.0 A/g, 95.2% of its capacitance was retained for 4000 cycles. The present nitrogen-doped graphene hydrogels may have potential applications as ultrahigh power density capacitors in the vehicle, lift and the other devices at high rates.

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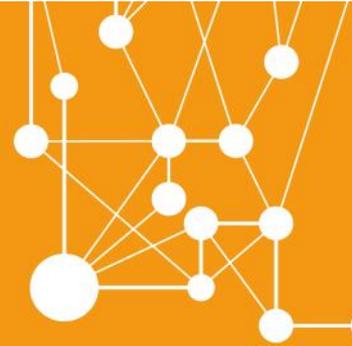
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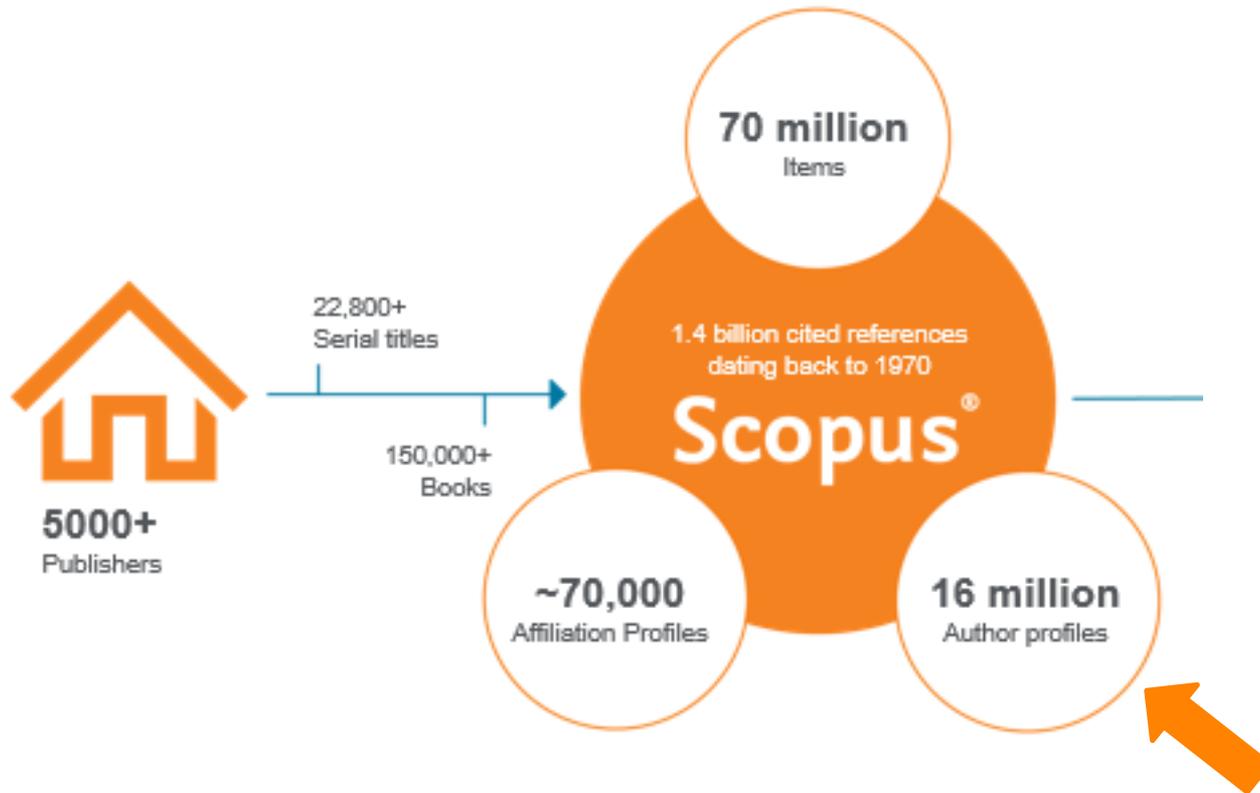
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2 Self-channelling of high-peak-power femtosecond laser pulses in air	Braun, A., Korn, G., Liu, X., (...), Squier, J., Mourou, G.	1995	Optics Letters 20(1), pp. 73-75	1123
3 Terawatt to petawatt subpicosecond lasers	Perry, M.D., Mourou, G.	1994	Science 264(5161), pp. 917-924	918
4 Femtosecond optical breakdown in dielectrics	Lenzner, M., Krüger, J., Sartania, S., (...), Mourou, G., Kautek, F.	1998	Physical Review Letters 80(18), pp. 4076-4079	772

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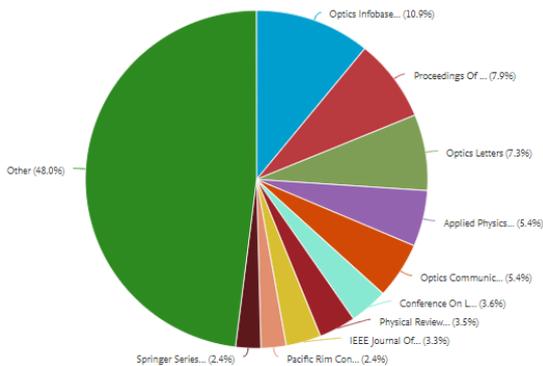
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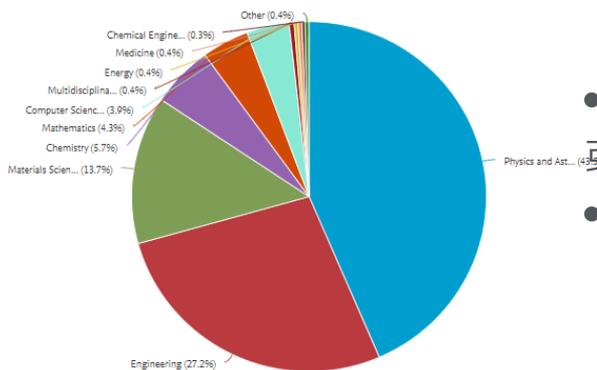
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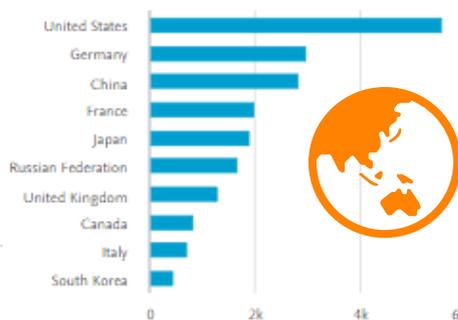


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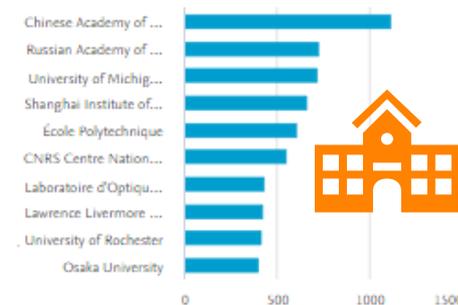
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École Polytechnique, Palaiseau, France  
作者 ID: 7102620818

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