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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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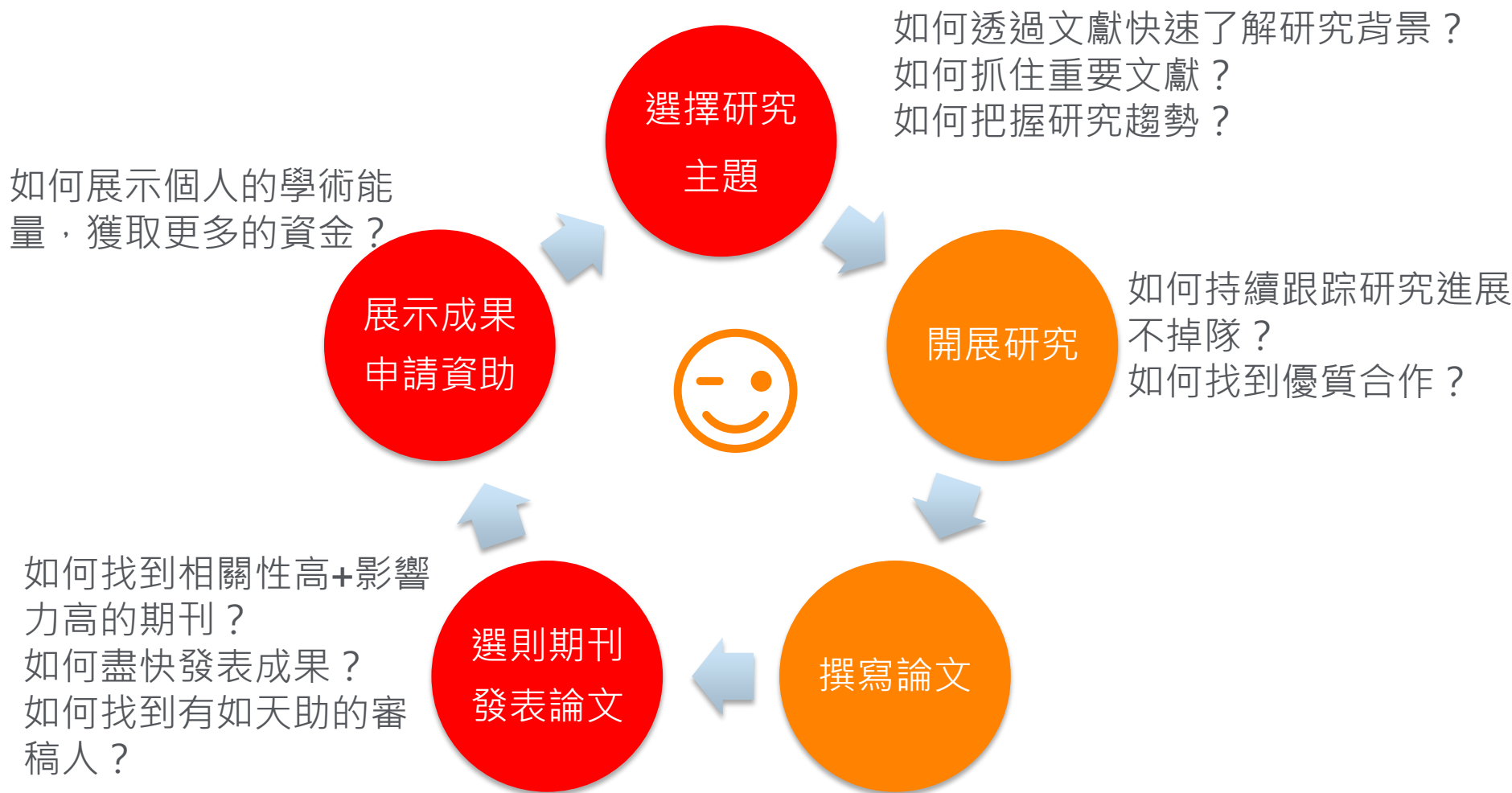
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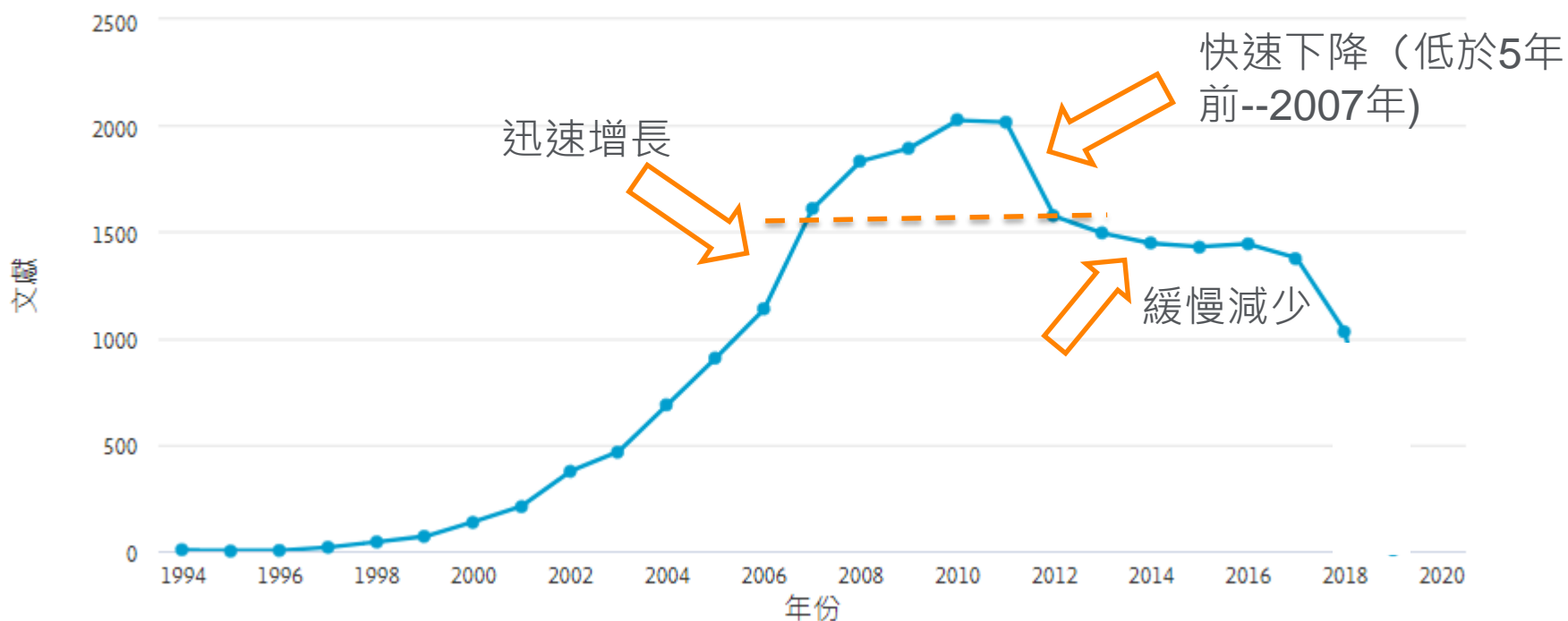
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按年份劃分的文獻



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篩選 關鍵字

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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	
	<ul style="list-style-type: none"> ■ 最新論文--最新進展 ■ 高引用論文--技術突破，重要成果 			
	nanoribbon semiconductors	S., Dai, H.	8	
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3	Storage of hydrogen in single-walled carbon nanotubes	Dillon, A.C., Jones, K.M., Bekkedahl, T.A., (...), Bethune, D.S., Hagan, M.L.	1997	

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<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
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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.^{a,b}, Li, L.^a, Zhang, C.^{a,c}, Casillas, G.^a, Sun, Z.^a, Yan, Z.^a, Ruan, G.^a, Peng, Z.^a, Raji, A.-R.O.^a, Kittrell, C.^{a,b}, Hauge, R.H.^{a,b}, Tour, J.M.^{a,b,e}

^aDepartment of Chemistry, Rice University, Houston, TX 77005, United States

^bRichard E. Smalley Institute for Nanoscale Science and Technology, Rice University, 6100 Main Street, Houston, TX 77005, United States

^cSchool 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 m²g⁻¹ with ohmic contact from the vertically aligned single-walled carbon nanotubes. Using scanning transmission electron microscopy, we observed the covalent transformation of sp² carbon to sp³ 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: 10.1111.
[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
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- 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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Molecular dynamics simulation of double-layered graphene-carbon nanotube junctions for thermal rectification
Yang, X., Xu, J., Wu, S.
(2012) *Materials Letters*

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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.^a, Li, H.^a, Deng, L.^a, Yang, H.^a, Lv, X.^a, Li, P.^a, Li, F.^a, Zhang, R.^c, Liu, T.^{a,b}, Yao, D.^{a,b} ✉, Xu, P.^{a,b} ✉ 🔍

^aKey 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

^bCenter for Information in BioMedicine, University of Electronic Science and Technology of China, Chengdu, 610054, China

^cSchool 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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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

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Wang, Xingyu

Scholarly Output

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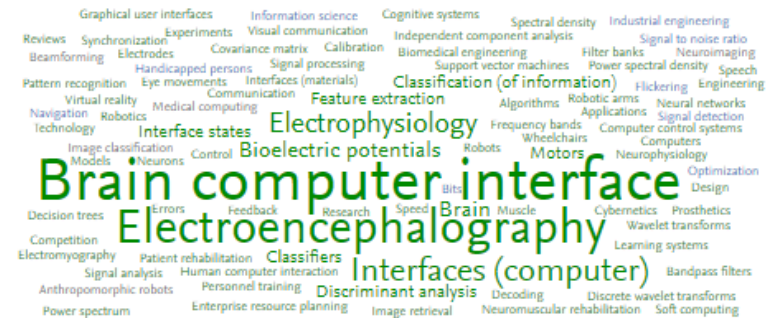
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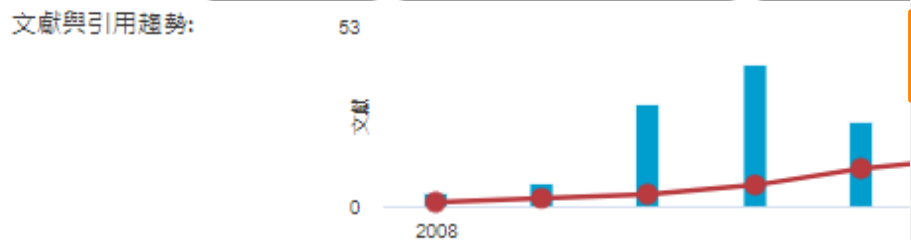
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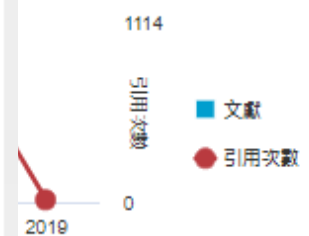
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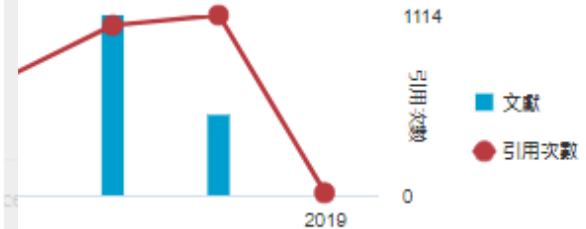
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2008	Science 319(5867), L., Wang, X., Zhang, L., Lee, S., H.

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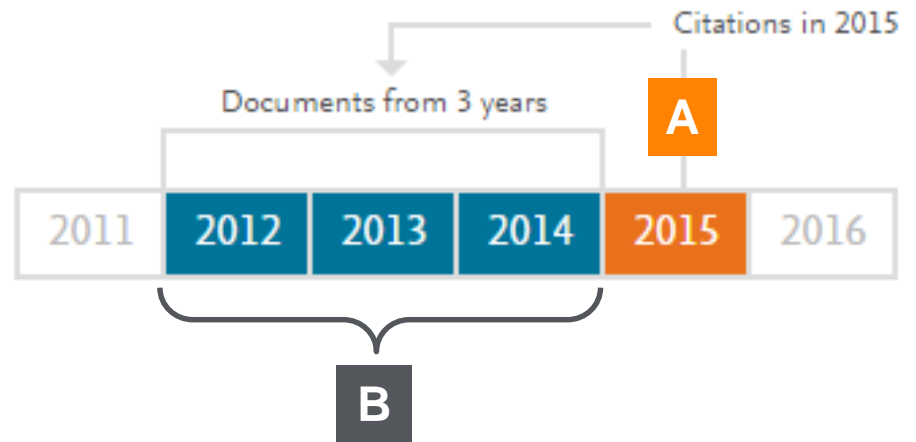
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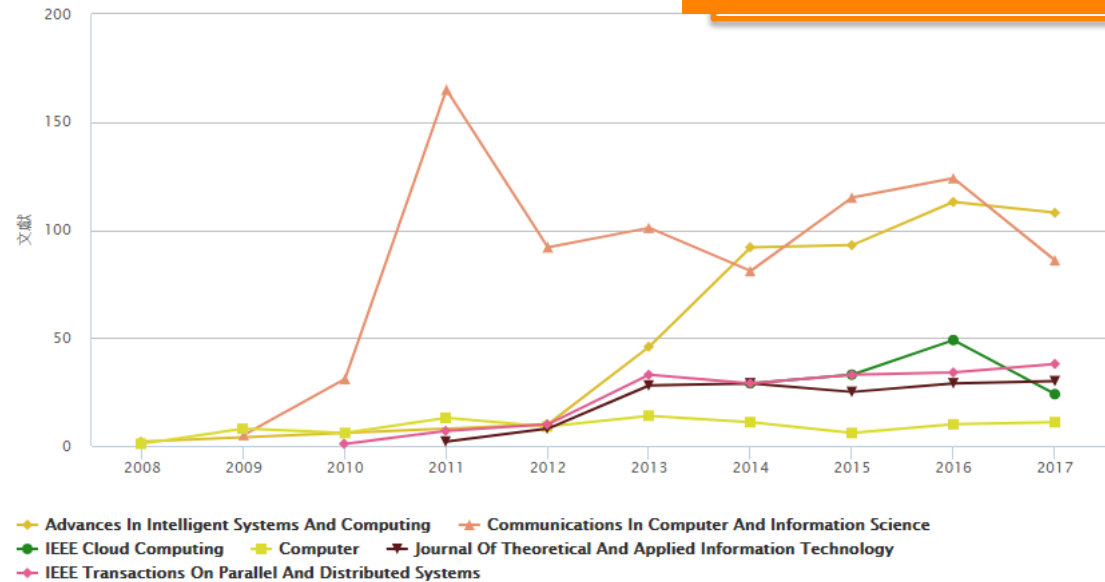
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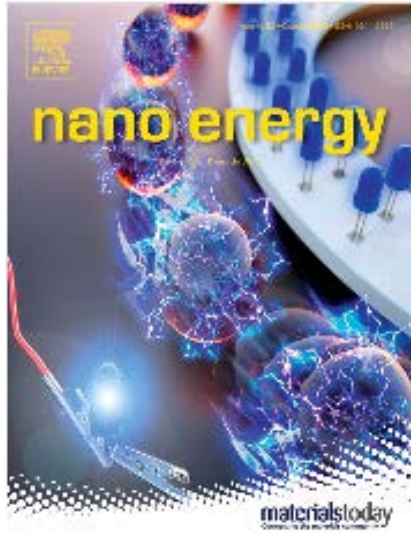
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Nano Energy
Volume 1, Issue 1, January 2012, Pages 107-131

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

Wu, Z.-S.^{1,2}, Zhou, G.³, Yin, L.-C.³, Ren, W.³, Li, F.³, Cheng, H.-M.³

¹Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, 72 Wenhua
²Max 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.

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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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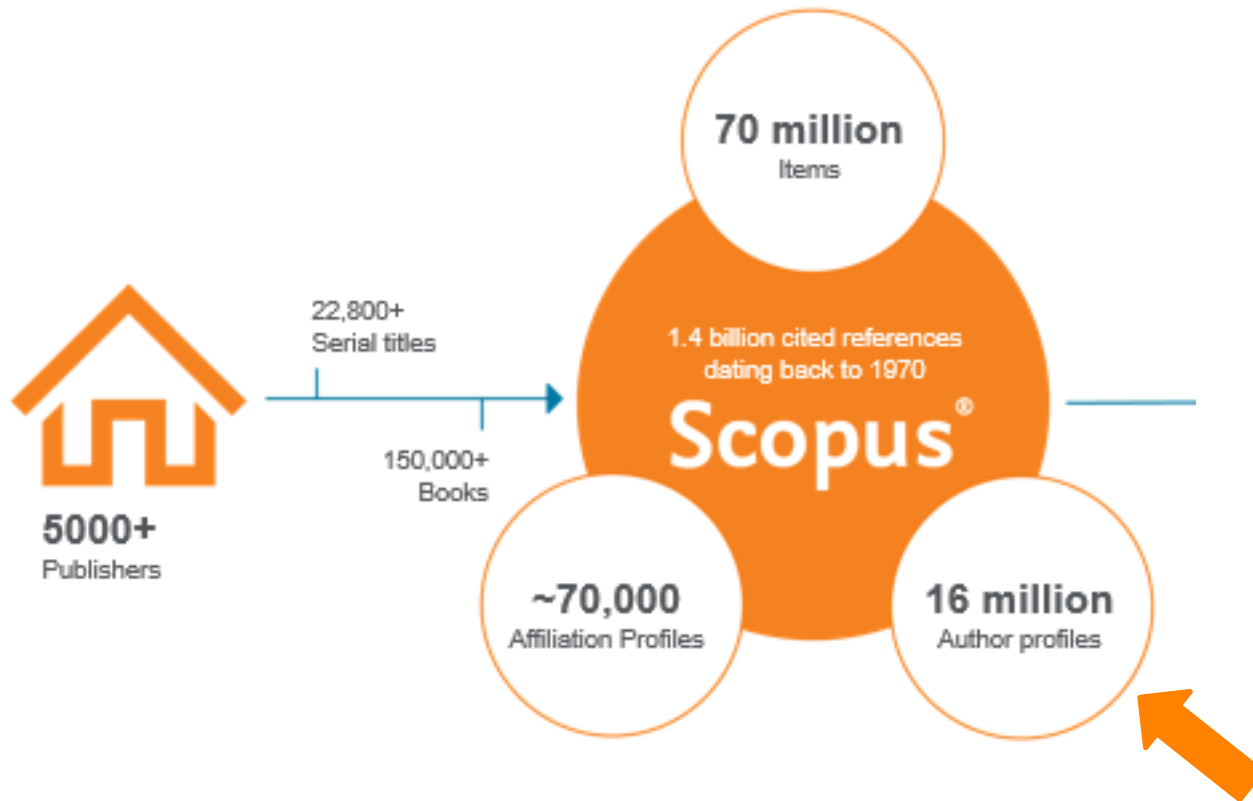
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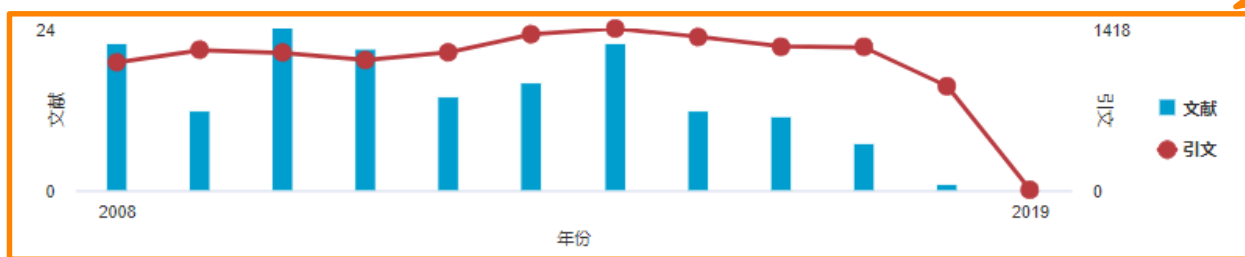


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2 Self-channelling of high-peak-power femtosecond laser pulses in air	Braun, A., Korn, G., Liu, X., (...), Squier, J., Mourou, G.	1995	Optics Letters 20(1), pp. 73-75	1123
3 Terawatt to petawatt subpicosecond lasers	Perry, M.D., Mourou, G.	1994	Science 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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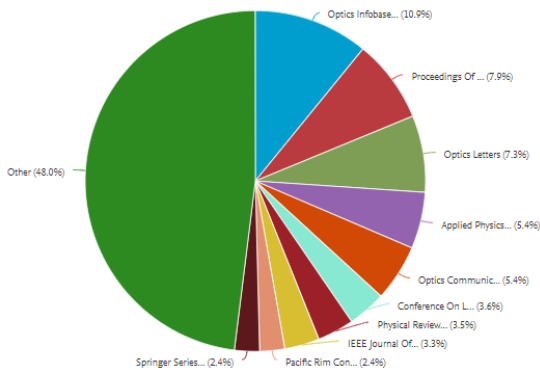
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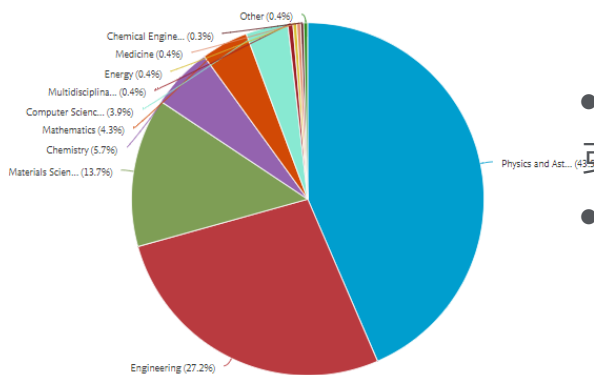
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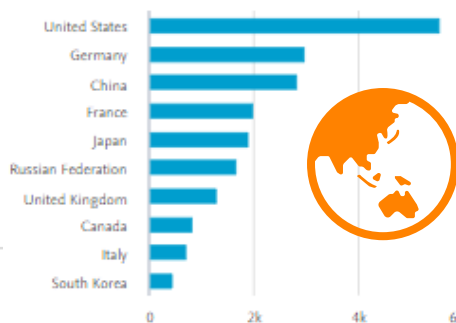


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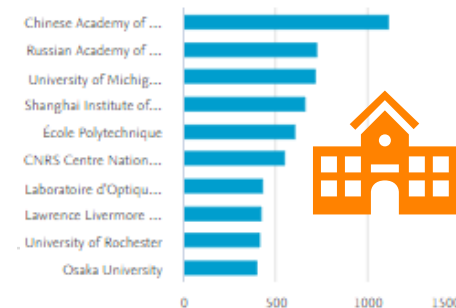
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