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SCIENCE CHINA physics,
Mechanics & Astronomy

高原宁 (清华大学)

中国物理学会高能物理分会 第十届全国会员代表大会暨学术年会

上海交通大学和李政道研究所 2018年6月20-24日

历史与使命



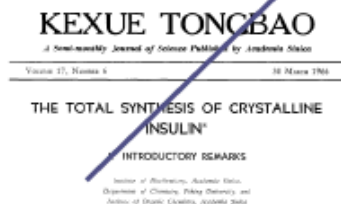
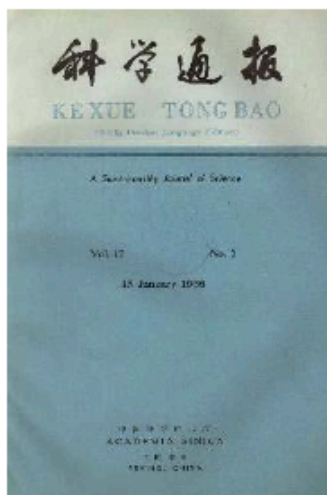
中国科学院1950年创办

1950年，郭沫若院长在《科学通报》的发刊词中指出：“除掉科学行政和研究工作之外，我们将要出版各种的专门学报和两种综合性科学刊物：一种便是本刊——《科学通报》，另一种是《中国科学》。这些学报和综合性的科学刊物，都希望中国的科学工作者们协力支持，视为我们建设新中国、建设新中国科学的共同事业。大体上《科学通报》的任务是接近于科学普及的，《中国科学》和各种学报则将担任提高的任务。”

1978年，在第二届“两刊”联合编委会第一次会议上，重新明确了《中国科学》和《科学通报》的性质与任务：“《中国科学》与《科学通报》都是代表我国科学水平的综合性学术刊物。它们的任务是，以马列主义、毛泽东思想为指导，反映我国科学研究水平，促进国内外学术交流，为实现新时期的总任务、加速实现四个现代化服务。《中国科学》发表基础科学以及农业、医学、技术科学方面具有创造性的、代表我国科学水平的重大科研成果的论文。《科学通报》以简报形式扼要报道上述各学科领域的重大科研成果或阶段性科研成果。《科学通报》还要充分发挥‘快’的特点，把科研成果及时报道出来。”

历史与使命

- 1966年，《科学通报》外文版创刊，同年停刊。
- 1980年，外文版复刊；目的与定位：**让世界了解中国科学。**
- 2015年，中、英文版分开；
英文版由*Chinese Science Bulletin*更名为*Science Bulletin*。
定位：**立足本土，面向世界的国际一流综合性学术刊物。**



The first total synthesis of a protein was accomplished in 1965 in the People's Republic of China. It is a laudable contribution to basic research which our scientific workers, by holding what the gene and function of Zhao Youxun's discovery have made the way people in the world to walk the frontier of science and to catch up with and surpass us on level of achievement.

The success achieved in the synthesis of insulin is a big stride in man's conquest of life in the course of his attempt to control his destiny. It signals the beginning of an era of scientific progress.

The total chemical synthesis of insulin is a piece of work which stems directly from the long historical experience. In 1880, when the microbe had assumed the stage of industrial fermentation for achievement, we took upon ourselves the task of making synthetic insulin in DR. The process even we be completed, an achievement which we hope to accomplish in a short time so serve as a contribution to the scientific progress of our mother country and also as an example of revolutionary initiative.

The main of thought that led us finally to choose this particular problem was as follows: Insulin, and another class of substance known as nucleic acids, are intimately associated with life and constitute the basic material of living matter. These two classes of substance are highly complexed biological polymers, among which insulin, the smallest of protein molecules, was the first to have its primary structure, I, E., its amino acid sequence, determined. Figure 1 shows the chemical structure of bovine insulin molecule with its two peptide chains and three disulfide linkages in parentheses, as obtained by

1966年创刊号上，“**结晶牛胰岛素的全合成**”一文首次以英文向世界发布，在国际上引起极大轰动。



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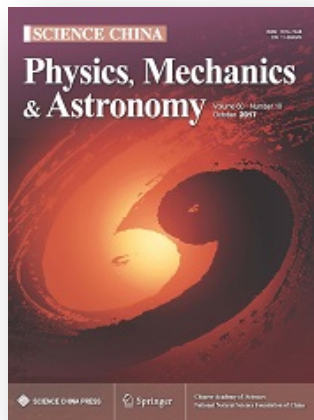
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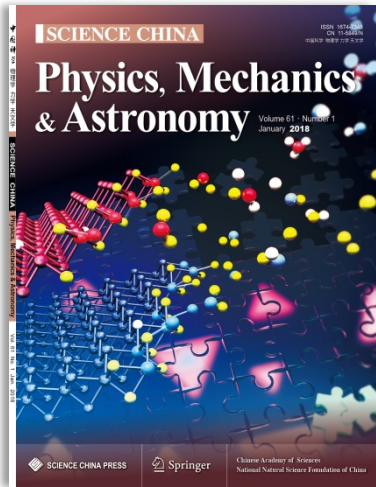
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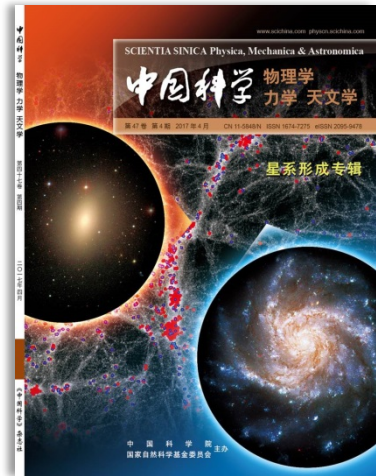
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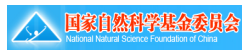
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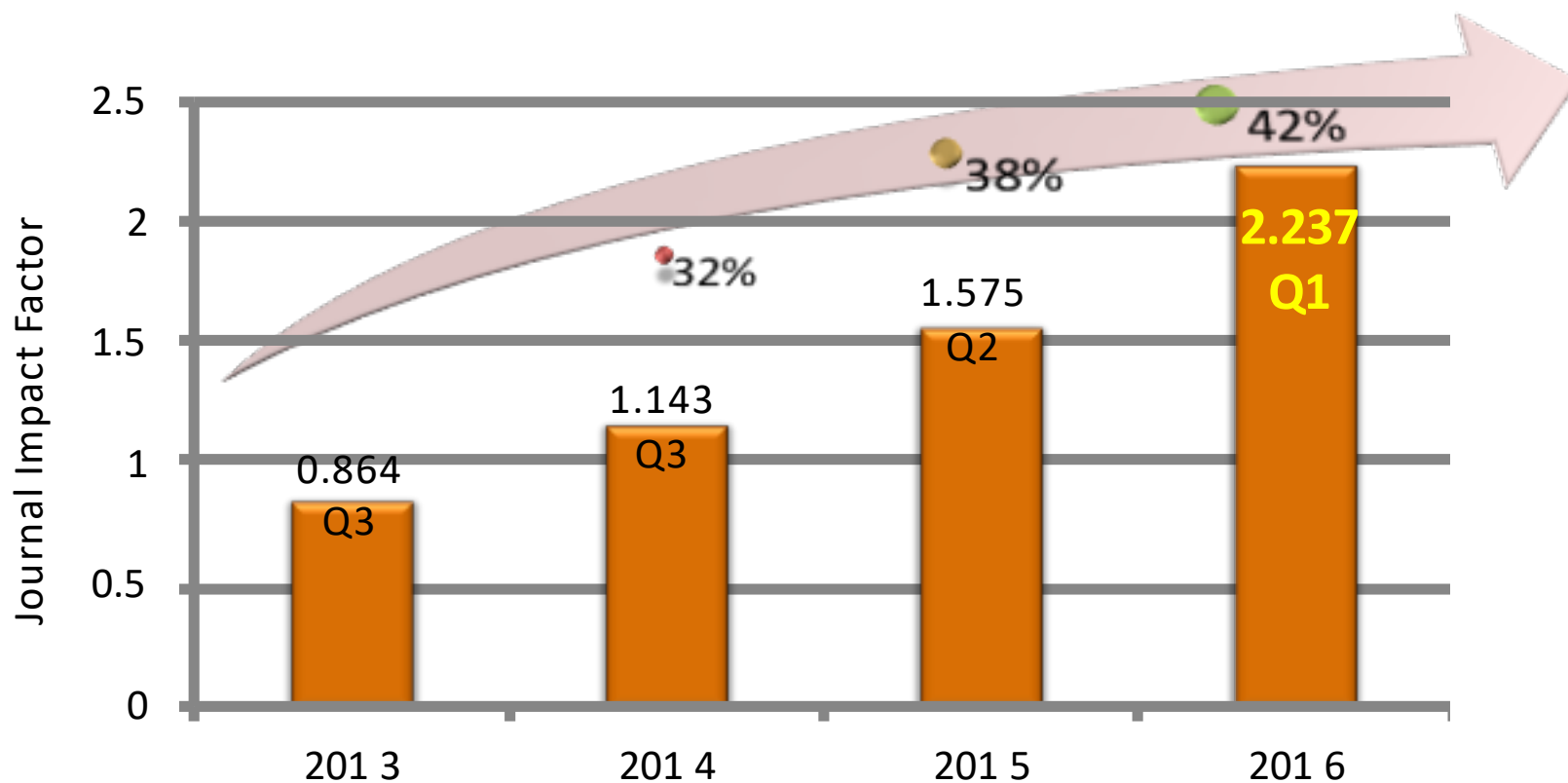
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- 两本杂志是促进各学科交流的有效渠道。
- 高能物理界对杂志关注度不高，但有成功先例：
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- **高能物理不应该缺席中国科学！**
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