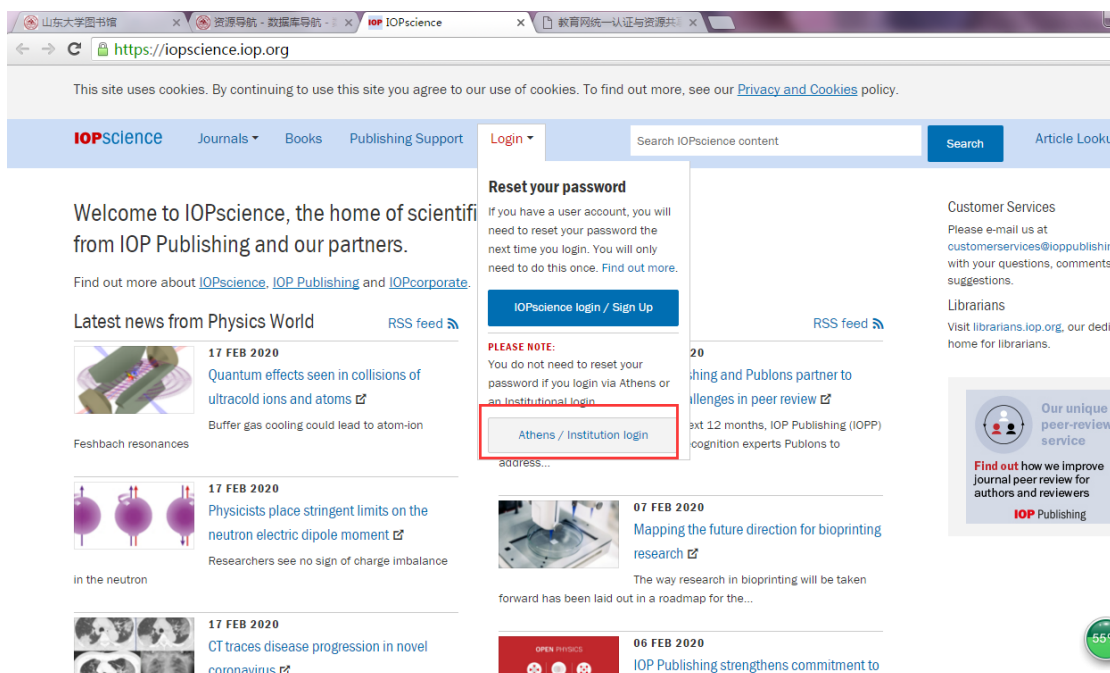
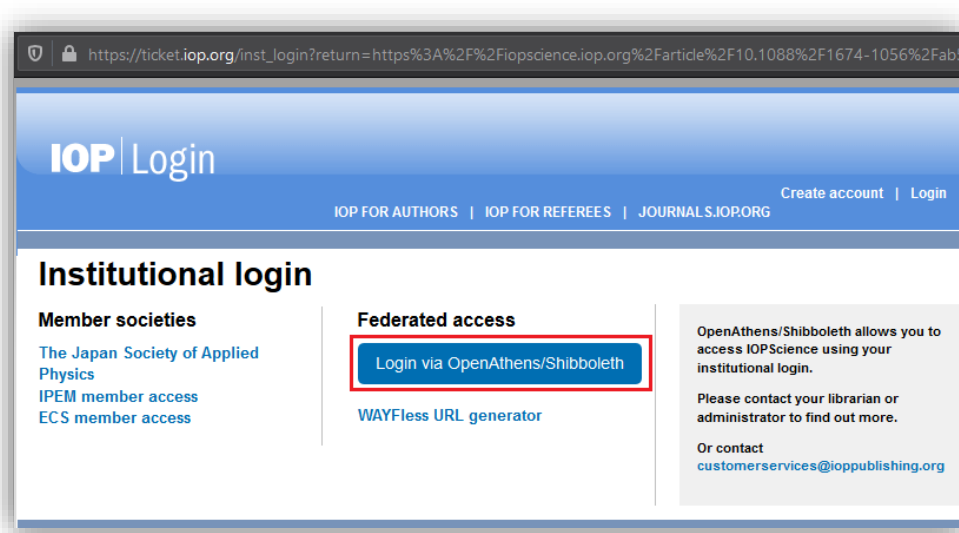


IOP 操作指南

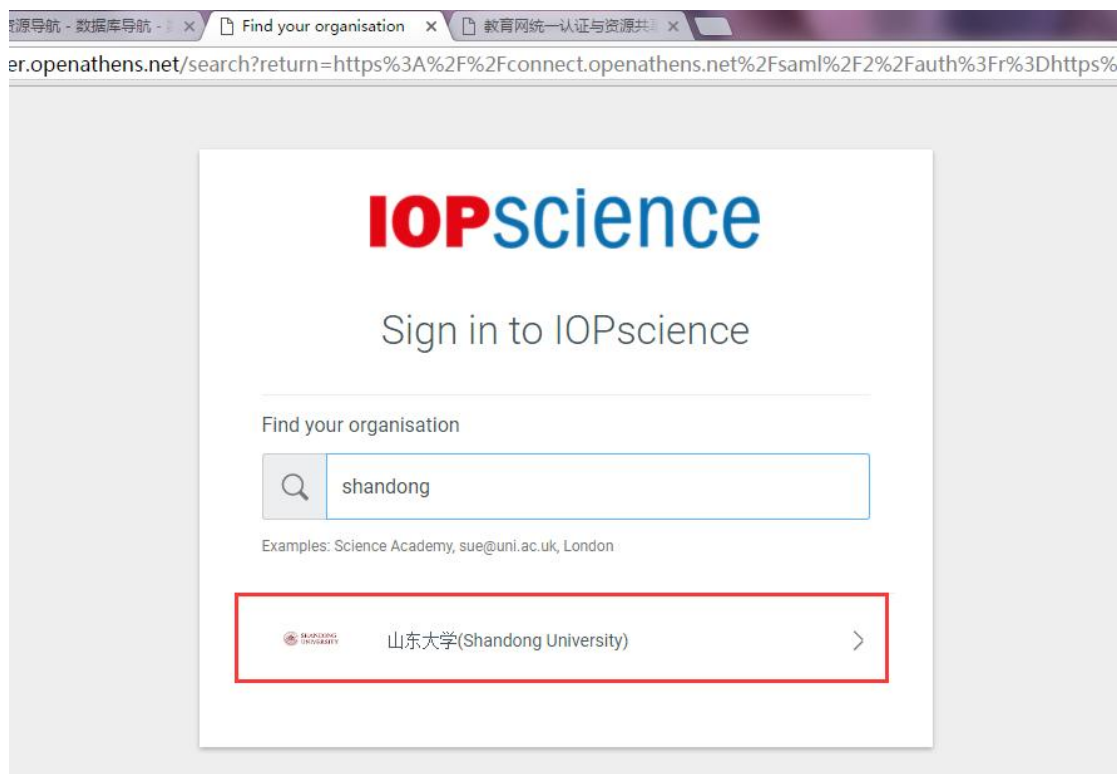
- 1、使用非校园 IP 地址打开浏览器，输入 <https://iopscience.iop.org>，通过访问 IOPscience 平台上的期刊文章或电子书（整本书或单独章节），选择“**Institution login**”



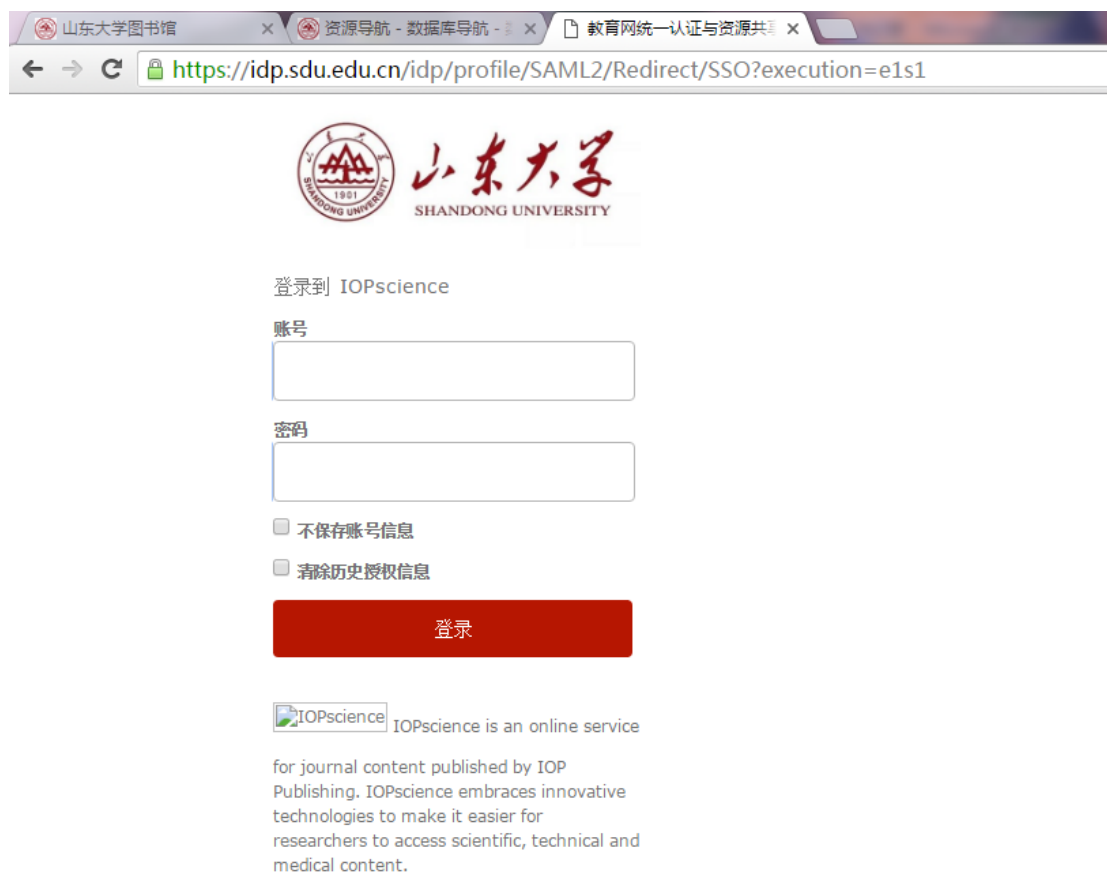
- 2、页面将会跳转到“**Institutional Login**”，之后选择“**Login via OpenAthens/Shibboleth**”。



- 3、在 IOPscience WayFinder 页面搜索自己的学校，例如：Shandong University。



4、到学校登录页面输入用户名，密码。



- 5、登录成功后您将会返回到 IOPscience 的期刊或电子书（整本书或单独章节）页面进行授权访问。

The screenshot shows a web browser displaying an article on the IOPscience website. The URL is <https://iopscience.iop.org/article/10.1088/1674-1056/ab5a3d>. The page header includes the IOPscience logo, navigation links for Journals, Books, Publishing Support, and Login, and a search bar. The article title is "Specific heat in superconductors" under the journal "Chinese Physics B". It is a "TOPICAL REVIEW" by Hai-Hu Wen (闻海虎), published in 2020 by the Chinese Physical Society and IOP Publishing Ltd. A blue button labeled "Article PDF" is visible. Below the article information, there are sections for "Abstract" and "1. Introduction". The abstract discusses the use of specific heat to investigate condensed materials and the properties of superconductors. The introduction begins by stating that specific heat is a powerful technique for studying superconductors, categorized by the Ginzburg-Landau parameter $\kappa = \lambda/\xi$. The page also features a table of contents on the right side, listing sections from 1. Introduction to 5.1. Introduction.

Chinese Physics B

TOPICAL REVIEW

Specific heat in superconductors

Hai-Hu Wen (闻海虎)
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[Chinese Physics B, Volume 29, Number 1](#)

Article PDF

Figures References

+ Article information

Abstract

Specific heat is a powerful tool to investigate the physical properties of condensed materials. Superconducting state is achieved through the condensation of paired electrons, namely, the Cooper pairs. The condensed Cooper pairs have lower entropy compared with that of electrons in normal metal, thus specific heat is very useful in detecting the low lying quasiparticle excitations of the superconducting condensate and the pairing symmetry of the superconducting gap. In this brief overview, we will give an introduction to the specific heat investigation of the physical properties of superconductors. We show the data obtained in cuprate and iron based superconductors to reveal the pairing symmetry of the order parameter.

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1. Introduction

Specific heat, as a bulk measurement technique, is very powerful to study the physical properties of condensed matter physics. Superconductors can be categorized into two types according to the Ginzburg-Landau parameter $\kappa = \lambda/\xi$. Superconductors with $\kappa < 1/\sqrt{2}$ belong to type-I, those with $\kappa > 1/\sqrt{2}$ belong to type-II, these associate with the positive and negative interface energies, respectively.

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Abstract
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