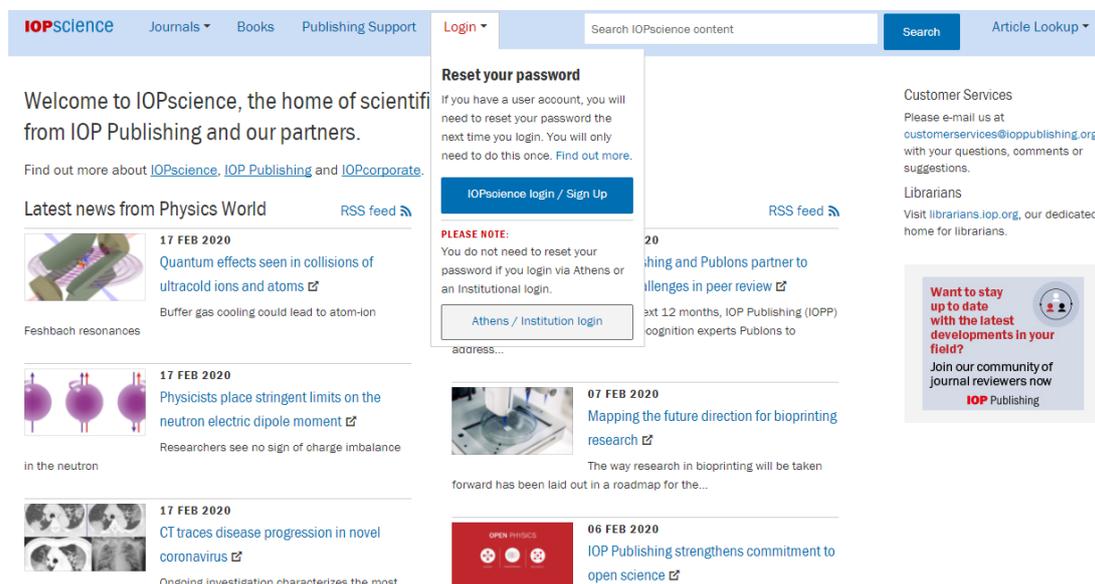


IOPscience 平台上的期刊文章或电子书 数据库

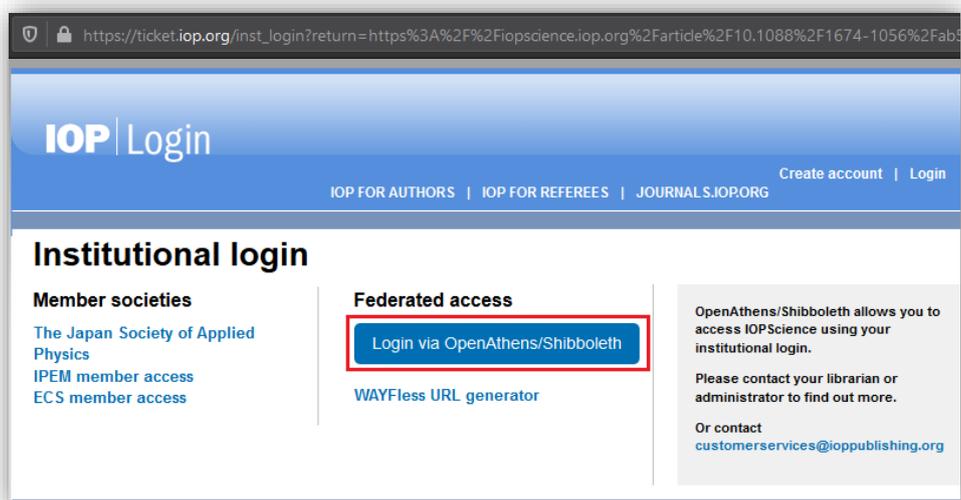
登录网址: <https://iopscience.iop.org>

1) 选择页面下方的“**Institutional Login via Athens/Shibboleth**” 登录方式。



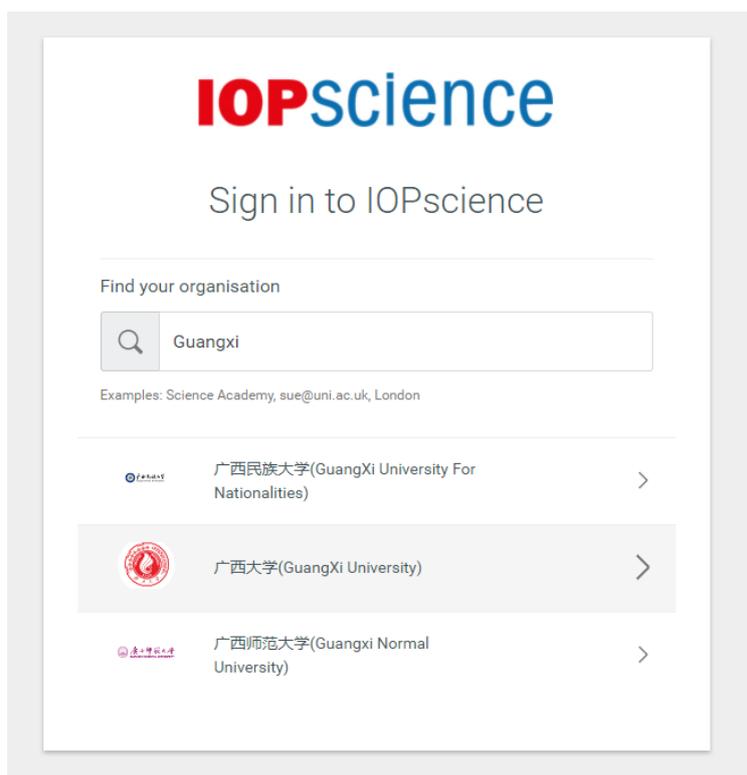
The screenshot shows the IOPscience homepage. At the top, there is a navigation bar with 'IOPscience', 'Journals', 'Books', 'Publishing Support', and a 'Login' dropdown menu. A search bar is also present. Below the navigation bar, there is a welcome message and a 'Latest news from Physics World' section with several article teasers. The 'Login' dropdown menu is open, showing options for 'Reset your password', 'IOPscience login / Sign Up', and 'Athens / Institution login'. A 'PLEASE NOTE' section is also visible, stating that users do not need to reset their password if logging in via Athens or an Institutional login.

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



The screenshot shows the 'IOP | Login' page. The main heading is 'Institutional login'. Under this heading, there are three columns of options: 'Member societies' (The Japan Society of Applied Physics, IPEM member access, ECS member access), 'Federated access' (Login via OpenAthens/Shibboleth, WAYFless URL generator), and a section for 'OpenAthens/Shibboleth' which states that it allows access using an institutional login and provides contact information for librarians or administrators. The 'Login via OpenAthens/Shibboleth' button is highlighted with a red box.

3) 在 IOPscience WayFinder.页面搜索自己的学校, 例如: Guangxi University。



4) 到学校登录页面输入用户名，密码(用户名为教工工号或者学生学号，初始密码为身份证后六位)。



登录到 IOPscience

账号

密码

不保存账号信息

清除历史授权信息

 IOPscience IOPscience is an online

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。

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Chinese Physics B

TOPICAL REVIEW
Specific heat in superconductors
 Hai-Hu Wen (闻海虎)
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 Chinese Physics B, Volume 23, Number 1

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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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2. Specific techniques

2.1. Relaxation

2.2. Different specific heat

3. Thermodynamic heat capacity

4. Low-energy excitations structure

4.1. Introduction

4.2. Specific fields

4.3. Coexisting mixed state

4.4. Impurity d-wave superconductors

5. Specific cuprate superconductors

5.1. Introduction