

iGroup



AIAA (美国航空航天学会) 数据库 使用指南

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AIAA 美国航空航天学会

American Institute of Aeronautics and Astronautics

- 1963年由 **美国火箭学会** 和 **美国宇航科学学会** 合并而成。
- 致力于航空、航天、国防领域的科技发展，是全球最大的非政府、非赢利的专业学会。
- AIAA在国际标准组织(ISO)中担任太空系统运营署(TC20-SC14)，同时是美国国家标准所认定机构。



AIAA 出版物

- AIAA出版物被公认为是早期航空航天文献的重要资源之一，文献最早可回溯至20世纪初。
- 在线数据库回溯到1963年，汇集50多年的出版物资源。
- 出版物包括：期刊、会议论文、杂志、系列图书、美国和国际标准。



AIAA 期刊总览

8 种同行评审 (peer-reviewed) 期刊, 其中7种被SCI收录, 可回溯至1963年。

- AIAA Journal
- Journal of Aircraft
- Journal of Guidance, Control, and Dynamics
- Journal of Propulsion and Power
- Journal of Spacecraft and Rockets
- Journal of Thermophysics and Heat Transfer
- Journal of Aerospace Information Systems
- Journal of Air Transportation
- Journal of Energy (停刊)
- Journal of Hydronautics (停刊)

AIAA 期刊介绍

- AIAA Journal 《美国航空航天学会志》
 - AIAA出版社的旗舰刊，涉及航空航天领域多个学科的最新理论研究进展、实践应用情况
 - 月刊，**总引用量27,144，持续二十年在宇航工程学科排名第一，影响因子2.624**（JCR 2021）
- Journal of Guidance, Control and Dynamic
《制导、控制和动力学期刊》
 - 介绍新一代高性能无人驾驶以及人工驾驶空间飞行器的研究成果以及工程应用状况。
 - 月刊，**总引用量12,003，宇航工程学科排名第六，影响因子2.486**（JCR 2021）



- Journal of Aircraft 《飞行器期刊》
 - 重点报道飞机技术发展的各个领域，包括飞机系统设计与优化、制造、飞行力学、飞行与地面测试、后勤保障与供给、飞机可靠性与维护、飞行安全、天气与噪音控制、人为因素、机场设计、航线运行、计算机在飞机技术中的应用等
 - 双月刊，总引用量8,027，宇航工程学科排名第六，影响因子1.919 (JCR 2021)
- Journal of Propulsion and Power 《推进与动力期刊》
 - 介绍航空航天动力技术，包括液体推进、固体推进技术的最新技术进展与动态
 - 双月刊，总引用量7,804，宇航工程学科排名第八，影响因子2.005 (JCR 2021)



- Journal of Spacecraft and Rockets

《航天器与火箭期刊》

- 报道飞船、火箭（战略战术）技术的最新进展，
含附属系统、应用、任务、环境影响及空间科学
- 双月刊，影响因子1.808（JCR 2021）



- Journal of Thermophysics and Heat Transfer

《热物理学与热传导期刊》

- 关注热物理与热传导，探讨气态、液态、固态热能的传递与储存技术发展
- 季刊，影响因子1.624（JCR 2021）



AIAA 期刊品质

Subject: ENGINEERING, AEROSPACE

总期刊数量: 34

数据来源: JCR 2021

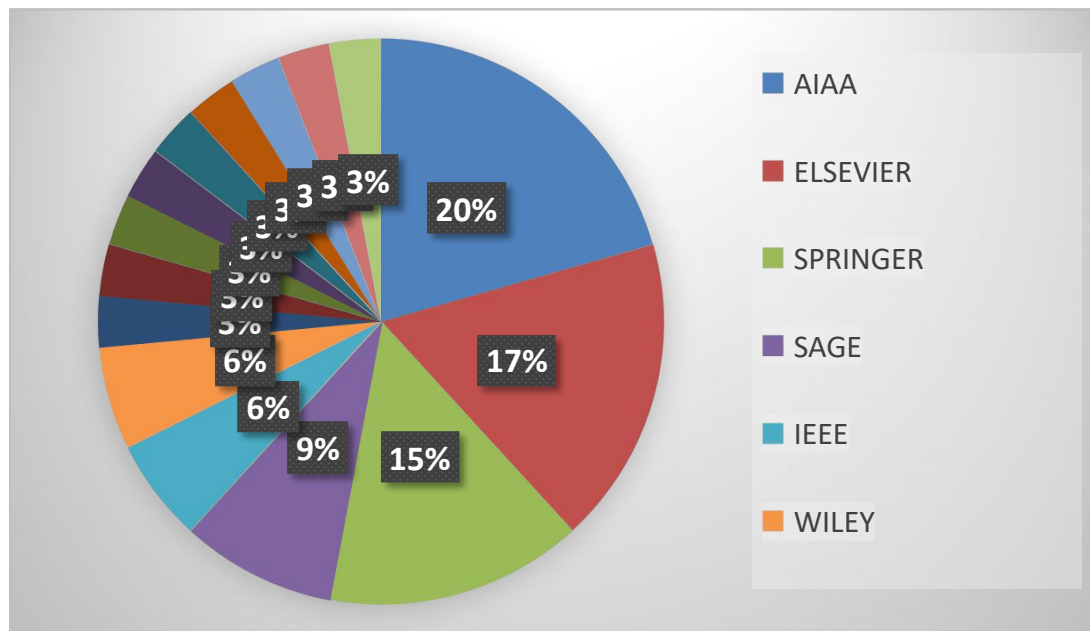
- 总引用量排名前列的期刊中, AIAA占据5席。
- 这5份期刊引用量总计60,156次, 宇航工程学科所有期刊的引用量总计164,457次, AIAA期刊占比约37%

期刊名称	总引用量排名	总引用量	影响因子	五年影响因子
<u>AIAA JOURNAL</u>				
《美国航空航天学会志》	1	27,144	2.624	2.767
<u>J GUID CONTROL DYNAM</u>				
《制导、控制和动力学期刊》	6	12,003	2.486	2.809
<u>J AIRCRAFT</u>				
《飞行器期刊》	7	8,027	1.919	1.909
<u>J PROPUL POWER</u>				
《推进与动力期刊》	8	7,804	2.005	2.279
<u>J SPACECRAFT ROCKETS</u>				
《航天器与火箭期刊》	11	5,178	1.808	1.805

* Journal of Thermophysics and Heat Transfer 被分在热力学THERMODYNAMICS学科类别

宇航工程核心期刊源分布

宇航工程 (ENGINEERING, AEROSPACE) 学科共收录期刊34种，其中AIAA是最大的期刊源，被收录6种，约占18%。排其之后的依次是Elsevier、Springer和SAGE。



AIAA 早期文献

IAS（宇航科学学会）、ARS（美国火箭学会）为AIAA前身研究机构，共出版7种期刊，其回溯数据收录范围：1930-1962年，与AIAA数据库使用同一平台，即ARC（Aerospace Research Central）一站式访问。

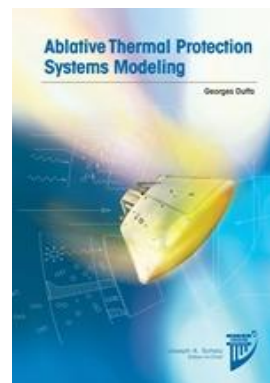
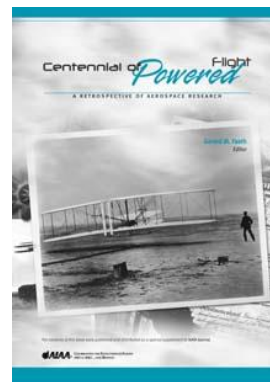
期刊名称	收录年限
ARS Journal	1959-1962
Journal of the Aeronautical Sciences	1934-1957
Journal of the Aerospace Sciences	1958-1962
Bulletin of the American Interplanetary Society	1930-1932
Journal of the American Rocket Society	1954-1958
Journal of Jet Propulsion	1942-1960
Astronautics	1933-1944

AIAA 会议录总览

- 内容涵盖：
 - 一般航空航天重点科技领域，如空气动力学、燃烧与推进、结构力学与材料、导航与控制等，
 - 专业领域，如热物理学、激光与等离子动力学、先进测量技术与地面测试、飞行动力与航天动力学等。
- AIAA会议录包含40多个类别，1,200多卷，且在不断增加。
- AIAA每年出版来自4-5种大类会议的约6,000篇会议论文。
- 会议录数据库回溯到1963年。

AIAA 电子图书总览

- 航空航天领域全球最大的专业电子书库
- 收录了上世纪六十年代以来AIAA出版社所有书籍，含现已难购得的绝版图书
- 共345种，可回溯至1960年
- 分3个系列，涉及7大领域



电子图书 三个系列

- **Progress in Aeronautics and Astronautics, 前沿系列, 229种**
---- 关注于航空航天科学、工程、技术领域某个特定研究主题的最新研究成果。
- **Education Series, 教育系列, 45种**
---- 讨论基论和概念, 可作为学科指南, 用于本科和研究生水平的教学, 以及专业人员了解新领域的基本阅读。
- **Library of Flight, 飞行文库系列, 71种**
---- 主题涵盖: 航空航天发展史和经济学, 飞行器和空间项目的设计、研发和管理。包括工具书、案例研究及一般图书。



Progress in
Astronautics
and Aeronautics



电子图书 七大领域

Aircraft Design

飞行器设计

Spacecraft Design

太空船设计

Aerospace Sciences

航空航天科学

Structures and Materials

结构与材料

Propulsion and Power

推进与动力

Management and History

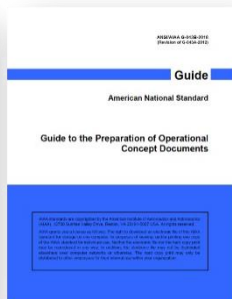
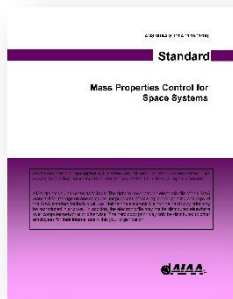
管理与航空航天史

Guidance, Navigation and Control

制导导航与控制

AIAA 标准总览

- AIAA标准委员会由**国际标准执行委员会监督**，并获得**美国国家标准协会的认证**，为促进制定新的航空航天标准、更新现行标准和确定标准化工作的总体方向，提供了权威的指导作用。
- AIAA标准是航空航天专业人员和学生了解该行业的必备资源，提供了专业领域的最佳实践方法、操作规范、特定项目的流程建议，致力于管理行业标准，支持航空航天行业效率和生产力的持续提高。除了研究和开发航空航天标准，**AIAA还管理着国际标准化组织 (ISO) 的两个空间小组委员会。**
- AIAA标准目前包含80多份专业标准文献，领域主要涉及：**航空飞行、建模仿真和测试、空间系统和飞行器三大方向。**



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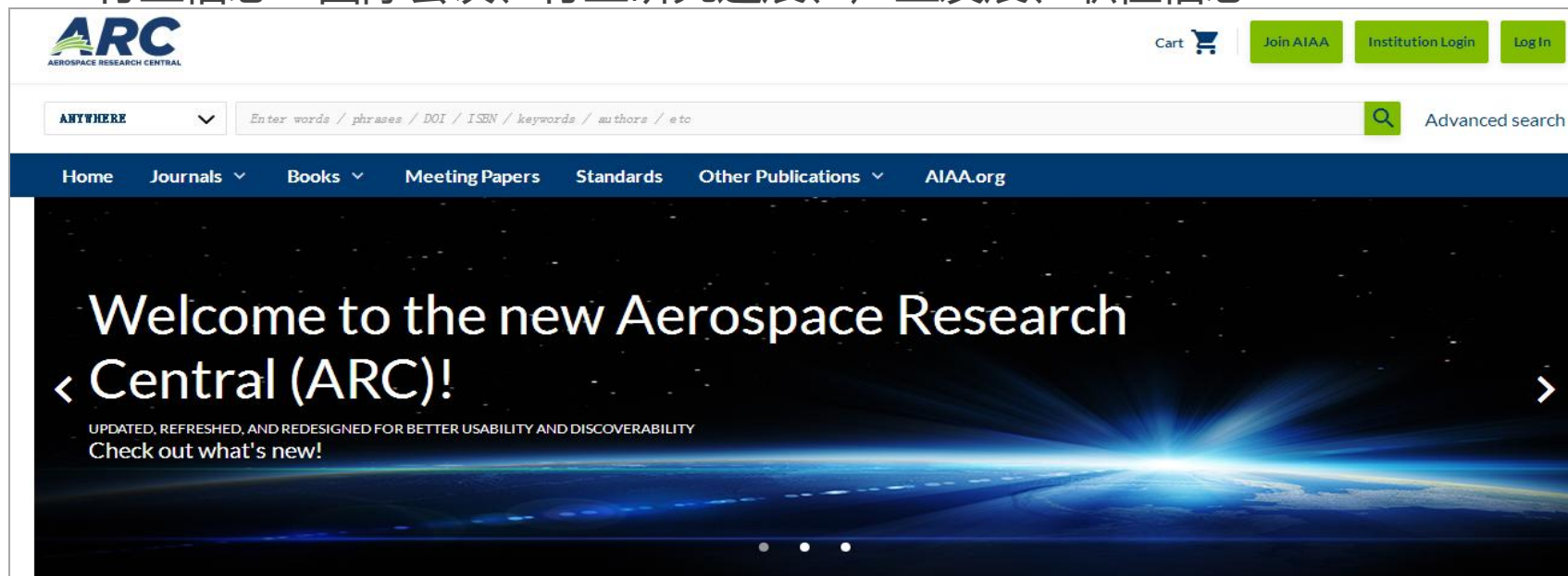
AIAA 其它信息

——行业动态、宇航科学职业发展、职位申请等

ARC 平台简介

AIAA数据库通过ARC平台提供访问（由Atypon公司Literatum平台托管）

- 一站式访问：期刊、电子书、会议录、回溯数据等所有信息...
- 个性化功能：文献标记、检索保存、引文下载、引用跟踪、邮件推送...
- 行业信息：国际会议、行业研究进展、产业发展、职位信息...



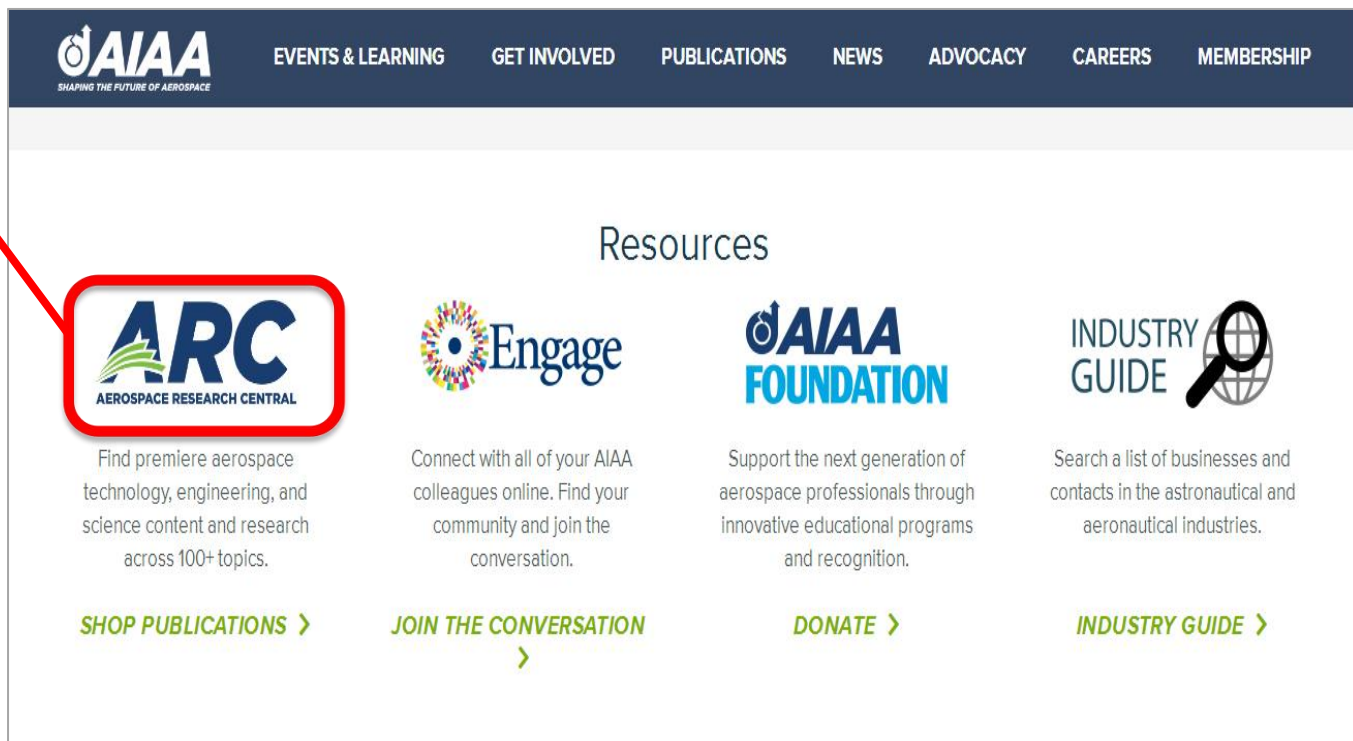
进入方式

两种方式：

--- ARC平台网址: <http://arc.aiaa.org/>

--- 由AIAA主页进入, AIAA主页网址: <https://www.aiaa.org/>

AIAA主页的
ARC平台链接



ARC 平台主页

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LATEST ARTICLES LATEST BOOKS

Extension of a Standard Flow Solver for Simulating Phase Change in Cryogenic Tanks

Martin Konopka

Journal of Thermophysics and Heat Transfer • Articles in Advance

Modeling a Nonlinear Melt Region as a Result of High-Speed Sliding

Lt Col Armando DeLeon, William P. Baker and Anthony N. Palazotto

Journal of Thermophysics and Heat Transfer • Articles in Advance

Optimal Path Planning for Unmanned Aircraft Target Observation Through Constrained Urban Environments

Michael D. Zollars, Richard G. Cobb and David J. Grymin

Journal of Air Transportation • Articles in Advance

Linear Models for Spacecraft Relative Motion Perturbed by Solar Radiation Pressure

Tommaso Guffanti and Simone D'Amico

Journal of Guidance, Control, and Dynamics • Articles in Advance

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类型

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Measurement of Impulsive Thrust from a Closed Radio-Frequency Cavity in Vacuum

Harold White, Paul March, James Lawrence, Jerry Vera, Andre Sylvester, David Brady and Paul Bailey

Journal of Propulsion and Power • Vol. 33, No. 4

Modal Analysis of Fluid Flows: An Overview

Kunihiko Taira, Steven L. Brunton, Scott T. M. Dawson, Clarence W. Rowley, Tim Colonius, Beverley J. McKeon, Oliver T. Schmidt, Stanislav Gordeyev, Vassilios Theofilis and Lawrence S. Ukeiley

AIAA Journal • Vol. 55, No. 12

Basic Understanding of Airfoil Characteristics at Low Reynolds Numbers (104–105)

Justin Winslow, Hikaru Otsuka, Bharath Govindarajan and Inderjit Chopra

Journal of Aircraft • Vol. 55, No. 3

Model Predictive Path Integral Control: From Theory to Parallel Computation

Grady Williams, Andrew Aldrich and Evangelos A. Theodorou

Journal of Guidance, Control, and Dynamics • Vol. 40, No. 2

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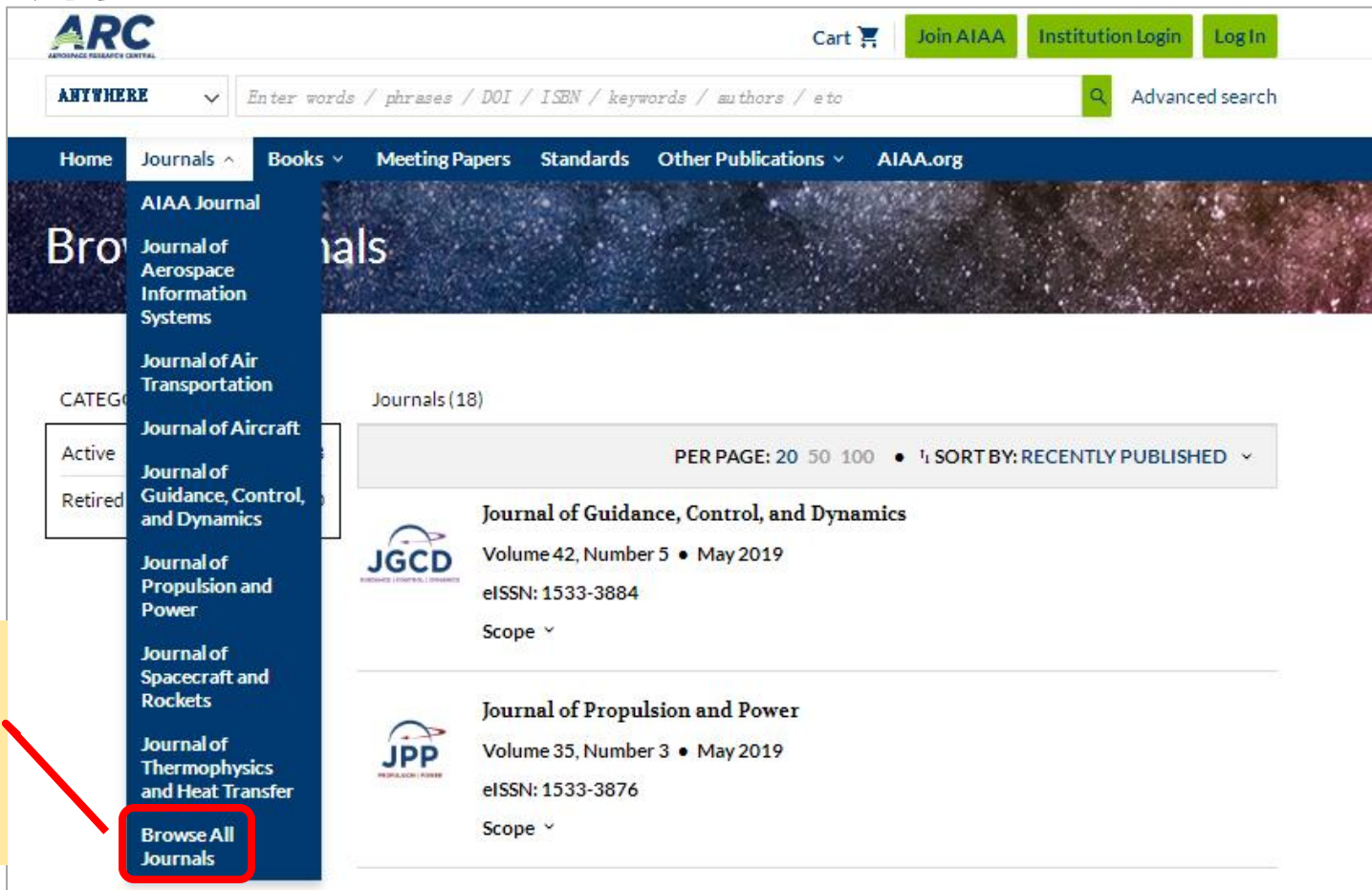
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期刊浏览



The screenshot shows the AIAA ARC website interface. At the top, there's a navigation bar with links for Home, Journals, Books, Meeting Papers, Standards, Other Publications, and AIAA.org. A search bar is also present. The 'Journals' dropdown menu is open, listing various journals. The 'Browse All Journals' link at the bottom of this menu is highlighted with a red box. A red arrow points from a yellow callout box to this link. The main content area displays a list of journals, including 'Journal of Guidance, Control, and Dynamics' and 'Journal of Propulsion and Power'.

Click to browse all journals

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Retired	10

Journals (18)

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ALPHABETICALLY

Journal of Guidance, Control, and Dynamics
Volume 42, Number 5 • May 2019
eISSN: 1533-3884

Journal of Propulsion and Power
Volume 35, Number 3 • May 2019
eISSN: 1533-3876

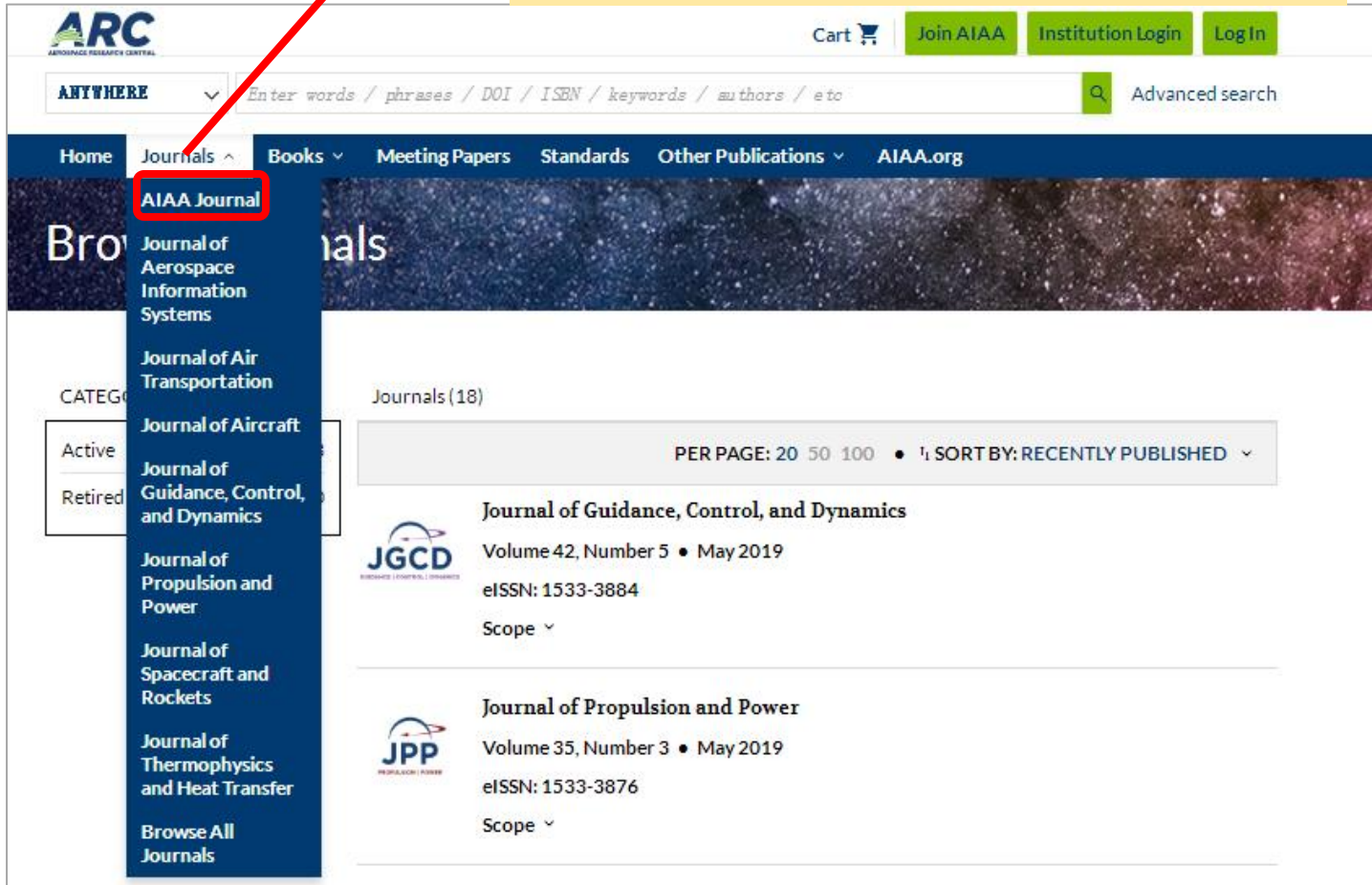
AIAA Journal
Volume 57, Number 4 • April 2019
eISSN: 1533-385X

Journal of Aerospace Information Systems
Volume 16, Number 4 • April 2019
eISSN: 2327-3097

按最新出版/字母顺
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期刊浏览

选择一份期刊，以 AIAA Journal 为例，
点击进入期刊主页



The screenshot shows the AIAA.org website interface. At the top, there's a navigation bar with links like 'Home', 'Journals', 'Books', 'Meeting Papers', 'Standards', 'Other Publications', and 'AIAA.org'. A red arrow points from the 'Journals' link to the 'AIAA Journal' option in the expanded dropdown menu. Below the menu, a list of journals is displayed, including 'Journal of Guidance, Control, and Dynamics' and 'Journal of Propulsion and Power'. The 'AIAA Journal' option is highlighted with a red box.

期刊浏览

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AIAA Journal

Editor-in-Chief: Alexander J. Smits • Frequency: Monthly

eISSN: 1533-385X

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2019	2018	2017	2016	2015	2014	2013	2012	2011	2010

Articles in Advance

Volume 57, Number 4 • April
pp. 1348-1785

Volume 57, Number 3 • March
pp. 888-1347

Volume 57, Number 2 • February
pp. 476-887

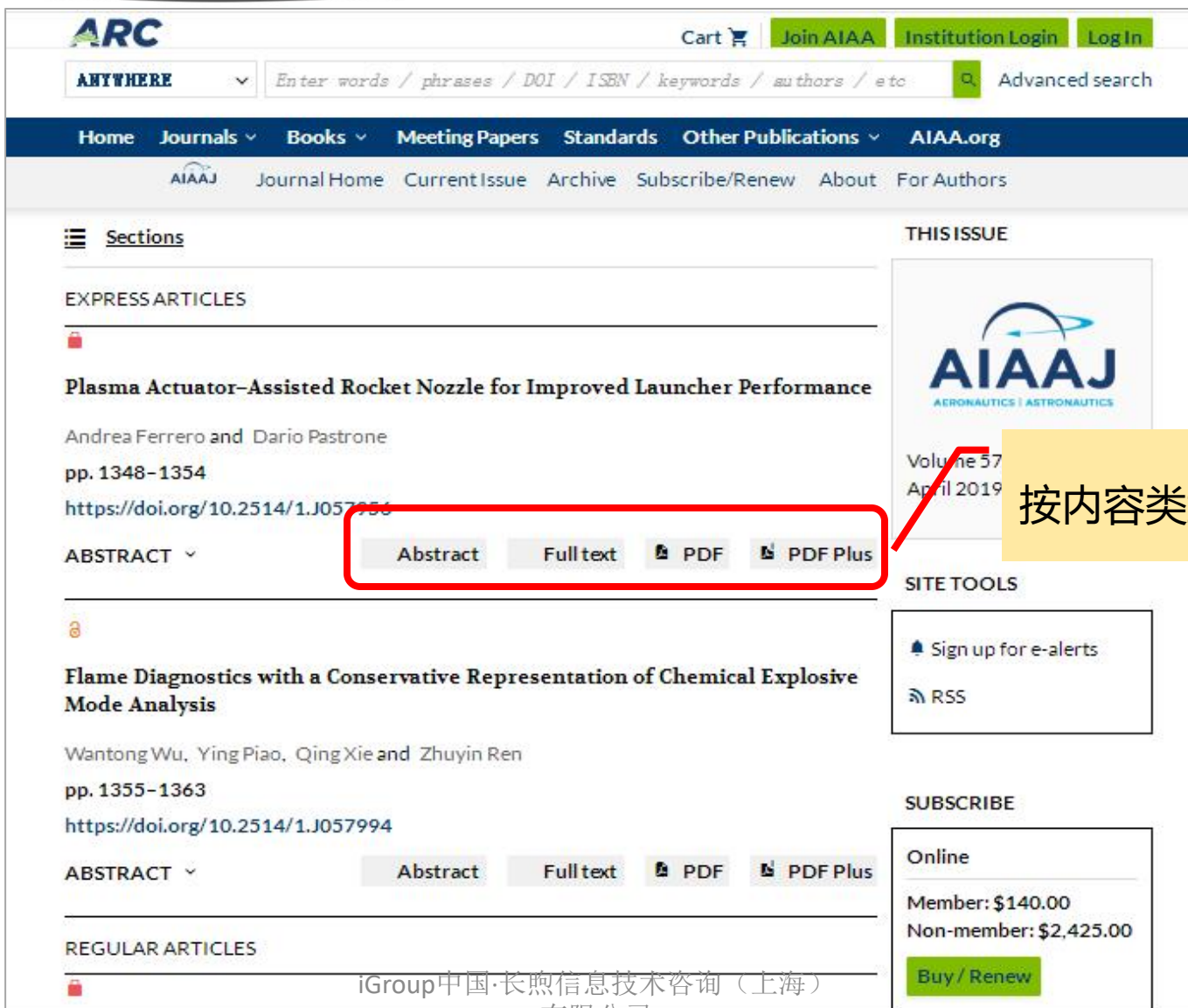
Volume 57, Number 1 • January
pp. 1-475

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AIAAJ
AERONAUTICS | ASTRONAUTICS

Volume 57, Number 4 • April 2019

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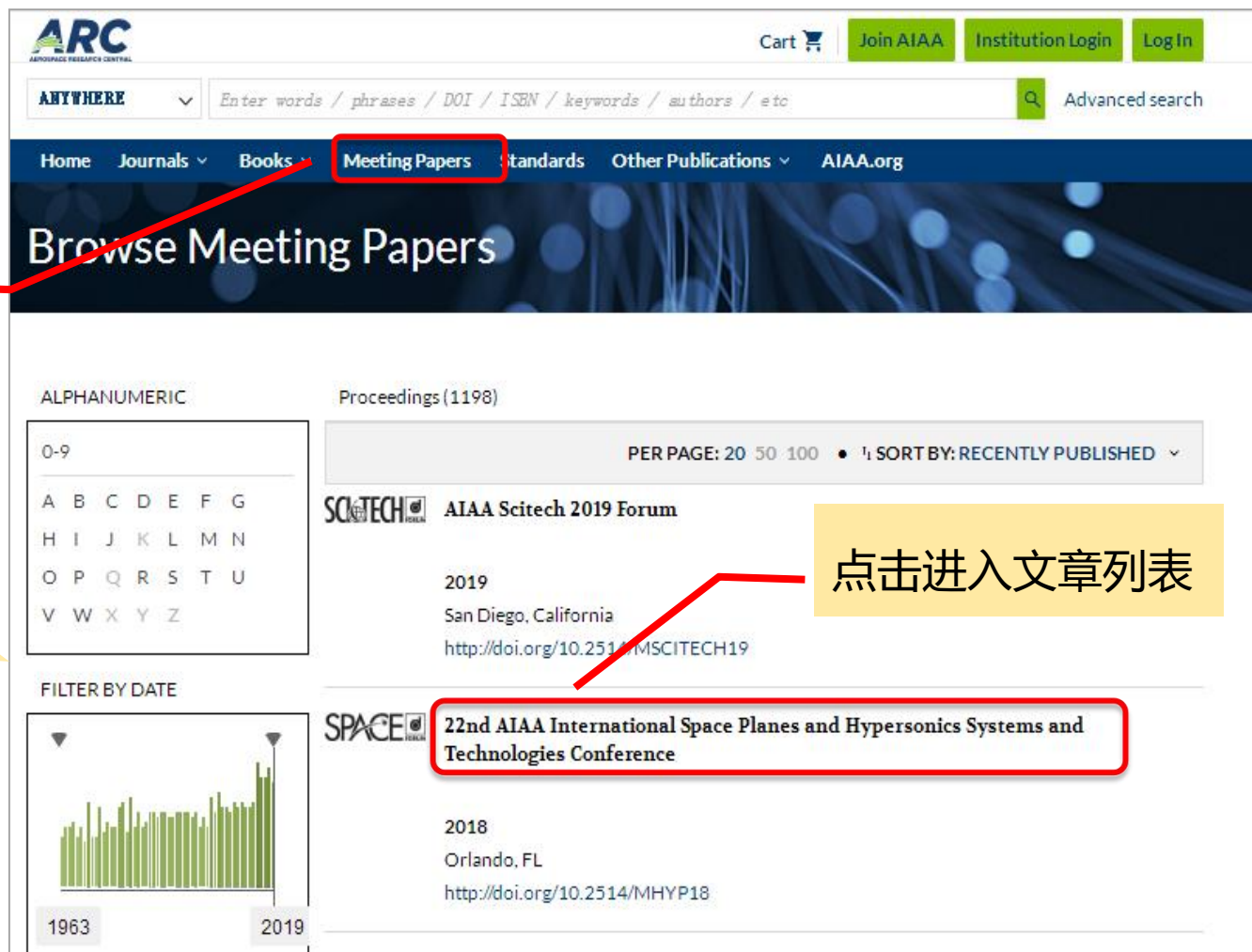
The screenshot shows the AIAAJ (AIAA Journal) website. At the top, there's a navigation bar with 'Home', 'Journals', 'Books', 'Meeting Papers', 'Standards', 'Other Publications', and 'AIAA.org'. Below this is a search bar with the text 'Enter words / phrases / DOI / ISBN / keywords / authors / etc' and an 'Advanced search' button. The main content area is divided into sections. The 'EXPRESS ARTICLES' section features the article 'Plasma Actuator-Assisted Rocket Nozzle for Improved Launcher Performance' by Andrea Ferrero and Dario Pastrone. Below the article title, there are buttons for 'Abstract', 'Full text', 'PDF', and 'PDF Plus'. A red box highlights these buttons, and a red arrow points from a yellow callout box to the 'PDF' button. The 'Flame Diagnostics with a Conservative Representation of Chemical Explosive Mode Analysis' article is also visible below. On the right side, there's a 'THIS ISSUE' section showing the journal cover for Volume 57, April 2019. Below that is a 'SITE TOOLS' section with links for 'Sign up for e-alerts' and 'RSS'. At the bottom right, there's a 'SUBSCRIBE' section with pricing for 'Online' members (\$140.00) and non-members (\$2,425.00), and a 'Buy / Renew' button. The footer of the page contains the text 'iGroup中国·长煦信息技术咨询(上海)有限公司'.

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1963 2019

Proceedings (1198)

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SCITECH AIAA Scitech 2019 Forum

2019
San Diego, California
<http://doi.org/10.2514/6.2019-1198>

SPACE 22nd AIAA International Space Planes and Hypersonics Systems and Technologies Conference

2018
Orlando, FL
<http://doi.org/10.2514/6.2018-1198>

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会议录浏览

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22nd AIAA International Space Planes and Hypersonics Systems and Technologies Conference

17-19 September 2018 • Orlando, FL

eISBN: 978-1-62410-577-7

Meeting Paper Home For Authors **AIAA SPACE Forum Home**

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Turbulence Dynamics in the Merging Process of Supersonic Streamwise Vortices

Fabrizio Vergine, Davide Vigano and Luca Maddalena

AIAA 2018-5161

HYTASP-03: Hypersonics Fundamentals and History I • Monday, 17 September 2018 • 1530 hrs

<https://doi.org/10.2514/6.2018-5161>

SPACE FORUM

<https://doi.org/10.2514/MHYP18>

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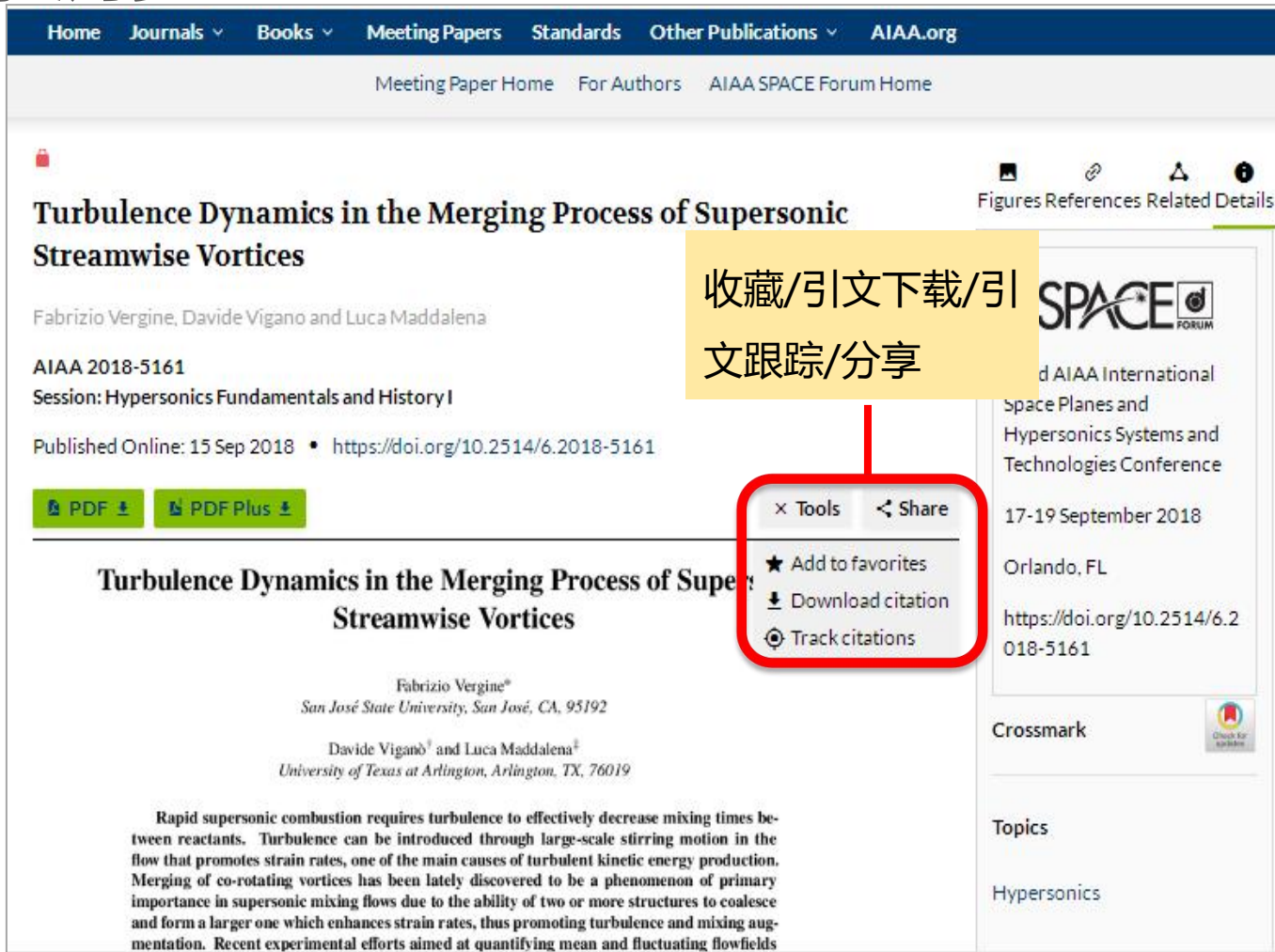
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The screenshot displays the AIAA.org website interface for a meeting paper. The top navigation bar includes links for Home, Journals, Books, Meeting Papers, Standards, Other Publications, and AIAA.org. Below this, a secondary bar shows Meeting Paper Home, For Authors, and AIAA SPACE Forum Home. The main content area features the paper title, authors (Fabrizio Vergine, Davide Vigano, and Luca Maddalena), AIAA number (AIAA 2018-5161), session information (Hypersonics Fundamentals and History I), and publication date (15 Sep 2018). A yellow callout box with the text '收藏/引文下载/引文跟踪/分享' (Collect/Cite/Track/Share) points to a 'Tools' dropdown menu. This menu contains options: 'Add to favorites', 'Download citation', and 'Track citations'. The 'Tools' menu is highlighted with a red border. The right sidebar provides additional details about the AIAA International Space Planes and Hypersonics Systems and Technologies Conference, including dates (17-19 September 2018), location (Orlando, FL), and the DOI link (https://doi.org/10.2514/6.2018-5161). The bottom section of the page shows the abstract text, which discusses the importance of turbulence in supersonic combustion and the merging of vortices.

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Turbulence Dynamics in the Merging Process of Supersonic Streamwise Vortices

Fabrizio Vergine, Davide Vigano and Luca Maddalena

AIAA 2018-5161
Session: Hypersonics Fundamentals and History I

Published Online: 15 Sep 2018 • <https://doi.org/10.2514/6.2018-5161>

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Turbulence Dynamics in the Merging Process of Supersonic Streamwise Vortices

Fabrizio Vergine^{*}
San José State University, San José, CA, 95192

Davide Vigano[†] and Luca Maddalena[‡]
University of Texas at Arlington, Arlington, TX, 76019

Rapid supersonic combustion requires turbulence to effectively decrease mixing times between reactants. Turbulence can be introduced through large-scale stirring motion in the flow that promotes strain rates, one of the main causes of turbulent kinetic energy production. Merging of co-rotating vortices has been lately discovered to be a phenomenon of primary importance in supersonic mixing flows due to the ability of two or more structures to coalesce and form a larger one which enhances strain rates, thus promoting turbulence and mixing augmentation. Recent experimental efforts aimed at quantifying mean and fluctuating flowfields

Figures References Related Details

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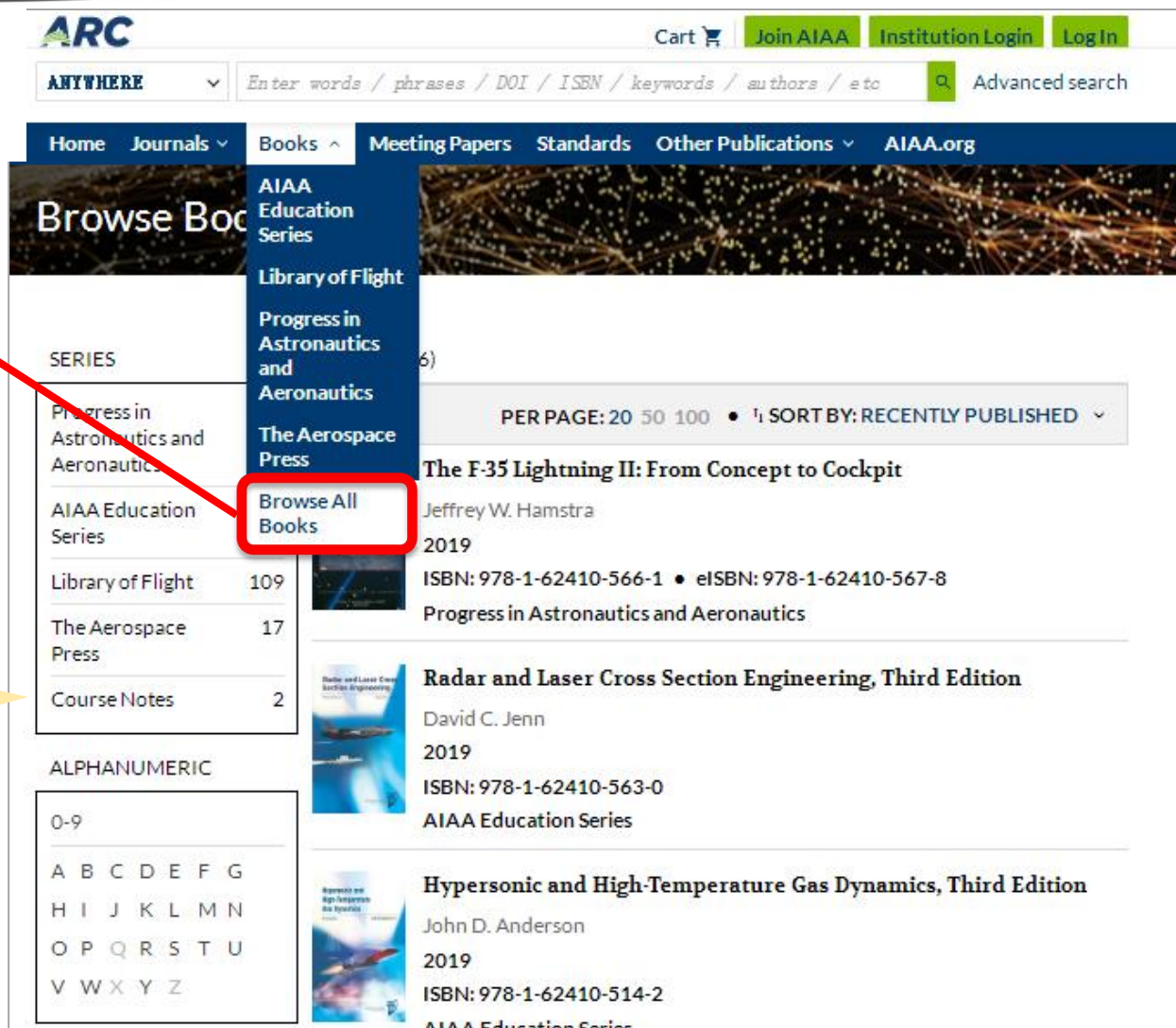
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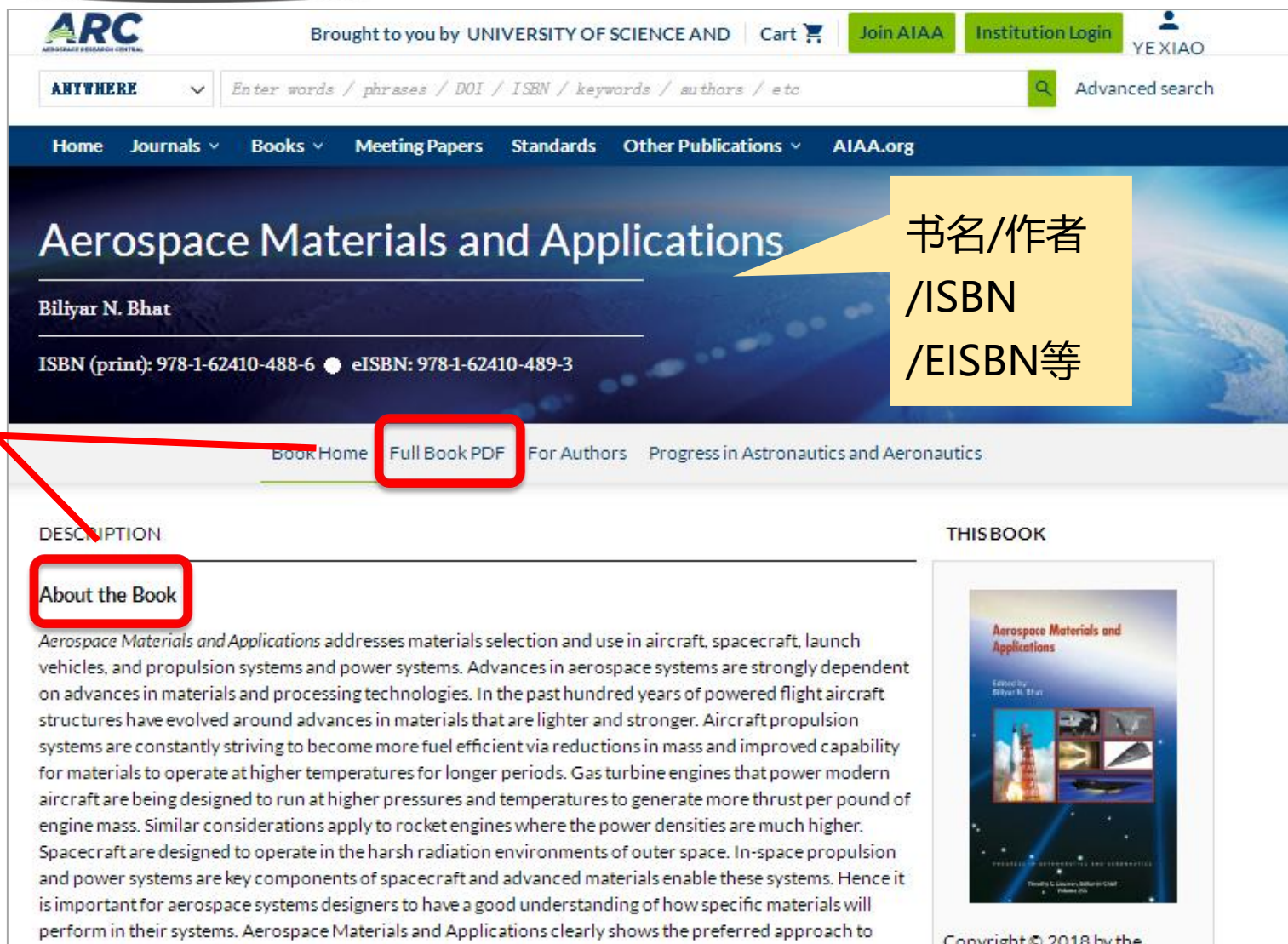
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Aerospace Materials and Applications

Biliyar N. Bhat

ISBN (print): 978-1-62410-488-6 • eISBN: 978-1-62410-489-3


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DESCRIPTION

About the Book

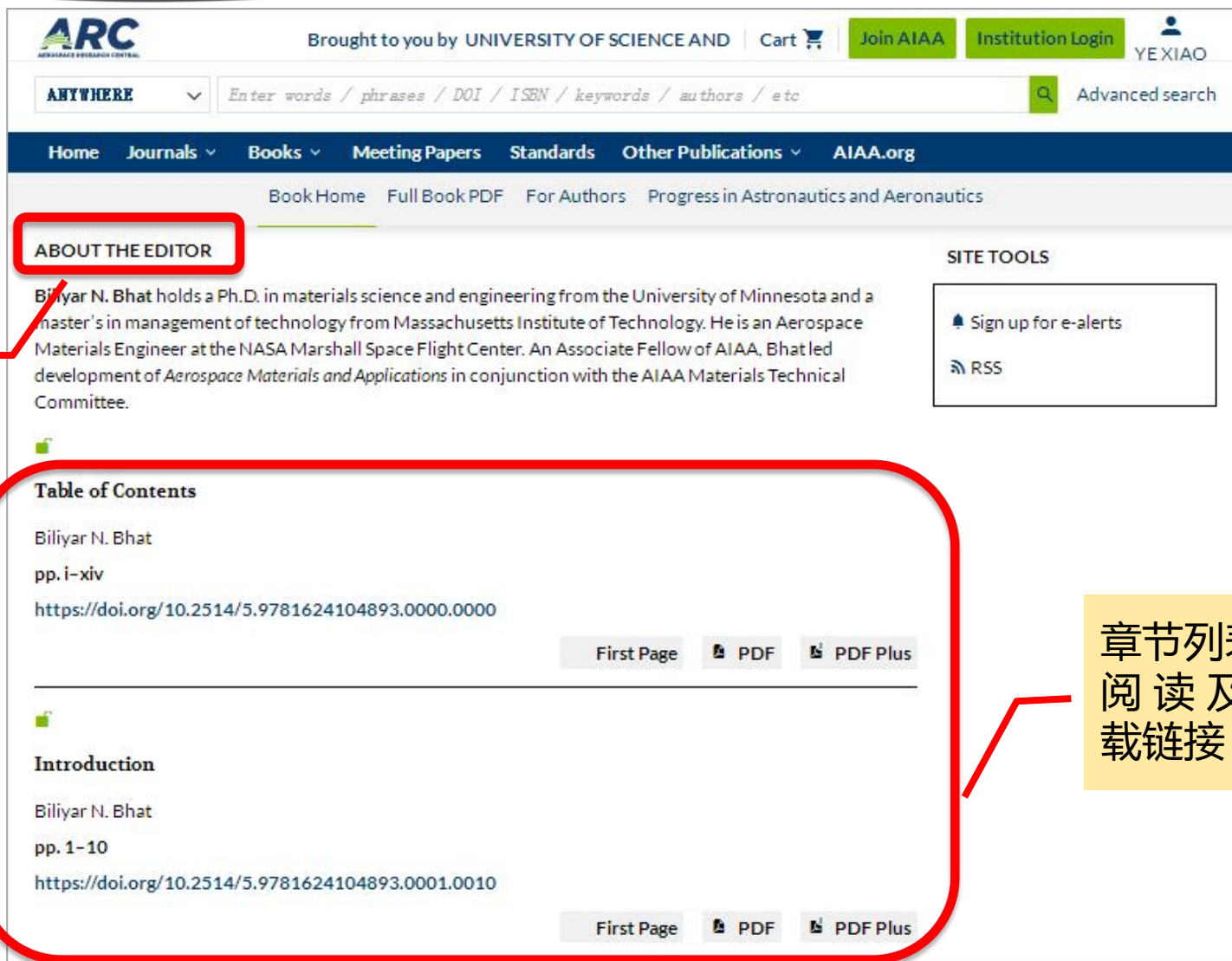
Aerospace Materials and Applications addresses materials selection and use in aircraft, spacecraft, launch vehicles, and propulsion systems and power systems. Advances in aerospace systems are strongly dependent on advances in materials and processing technologies. In the past hundred years of powered flight aircraft structures have evolved around advances in materials that are lighter and stronger. Aircraft propulsion systems are constantly striving to become more fuel efficient via reductions in mass and improved capability for materials to operate at higher temperatures for longer periods. Gas turbine engines that power modern aircraft are being designed to run at higher pressures and temperatures to generate more thrust per pound of engine mass. Similar considerations apply to rocket engines where the power densities are much higher. Spacecraft are designed to operate in the harsh radiation environments of outer space. In-space propulsion and power systems are key components of spacecraft and advanced materials enable these systems. Hence it is important for aerospace systems designers to have a good understanding of how specific materials will perform in their systems. *Aerospace Materials and Applications* clearly shows the preferred approach to

THIS BOOK



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作者简介



ABOUT THE EDITOR

Biliyar N. Bhat holds a Ph.D. in materials science and engineering from the University of Minnesota and a master's in management of technology from Massachusetts Institute of Technology. He is an Aerospace Materials Engineer at the NASA Marshall Space Flight Center. An Associate Fellow of AIAA, Bhat led development of *Aerospace Materials and Applications* in conjunction with the AIAA Materials Technical Committee.

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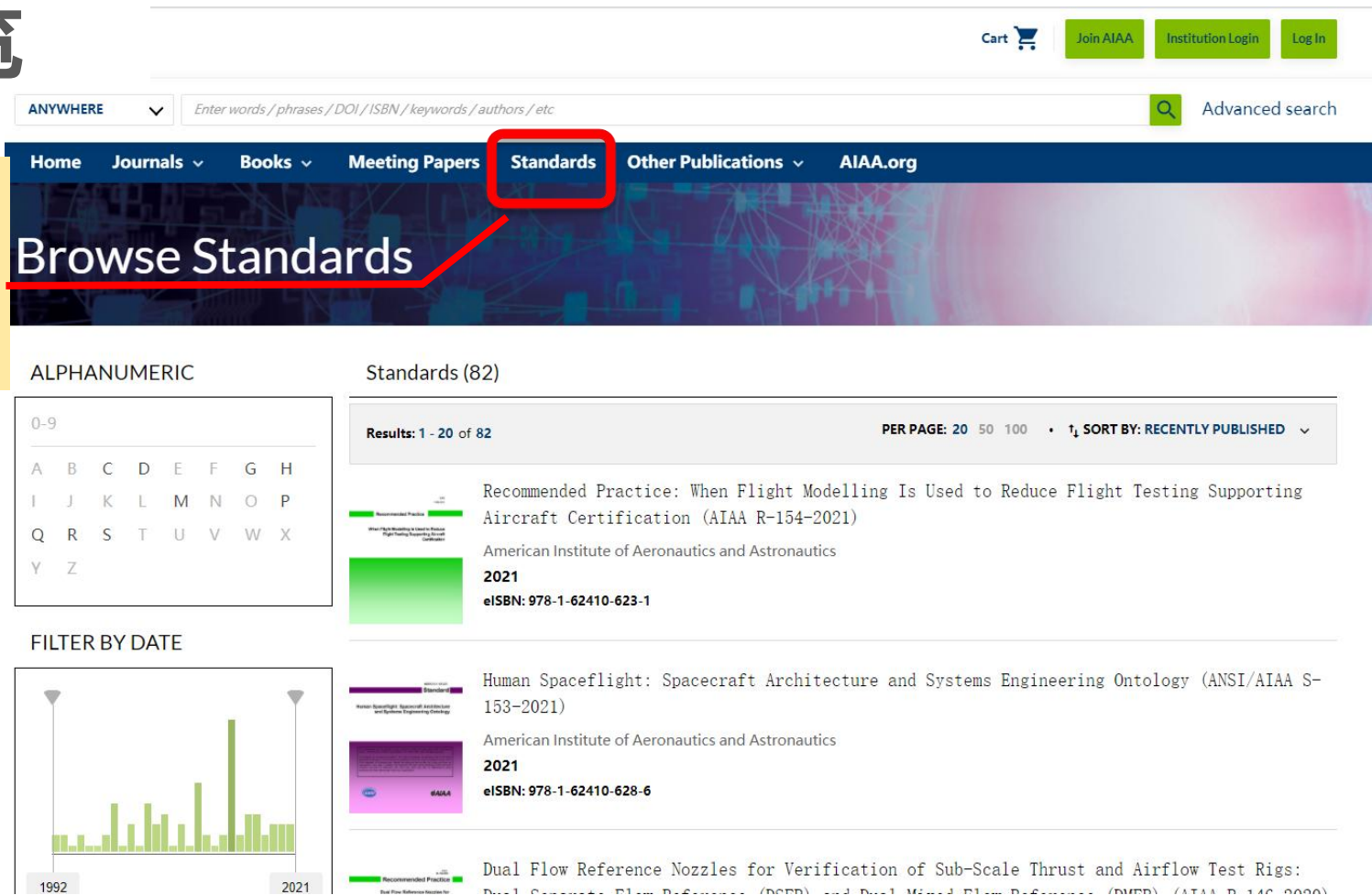
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DESCRIPTION

标准简介

This document outlines a set of recommended practices (six tasks) for an applicant to accomplish when flight modelling is being developed, proposed and used to reduce flight testing relative to established aircraft certification practices. The specific certification requirements considered when these recommendations were developed include aircraft performance and handling qualities, static loads and aeroelastic stability. However, the recommended tasks may also be applicable when showing compliance to other requirements.

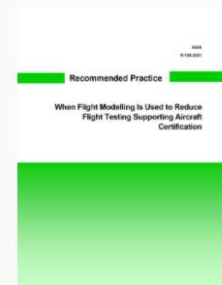
The set of tasks provides a framework for organizing information used to determine whether or not a particular analysis method is appropriate for supporting a compliance showing in a particular application. Hypothetical examples of applying these tasks to specific certification applications are provided. However, this document does not endorse specific analysis methods and processes for showing compliance to specific requirements nor prescribe how analysis methods are utilized. It remains the responsibility of the applicant and regulatory authority to determine whether a given analysis method is appropriate for a given compliance showing. The only recommended manner appropriate to the particular showing of compliance

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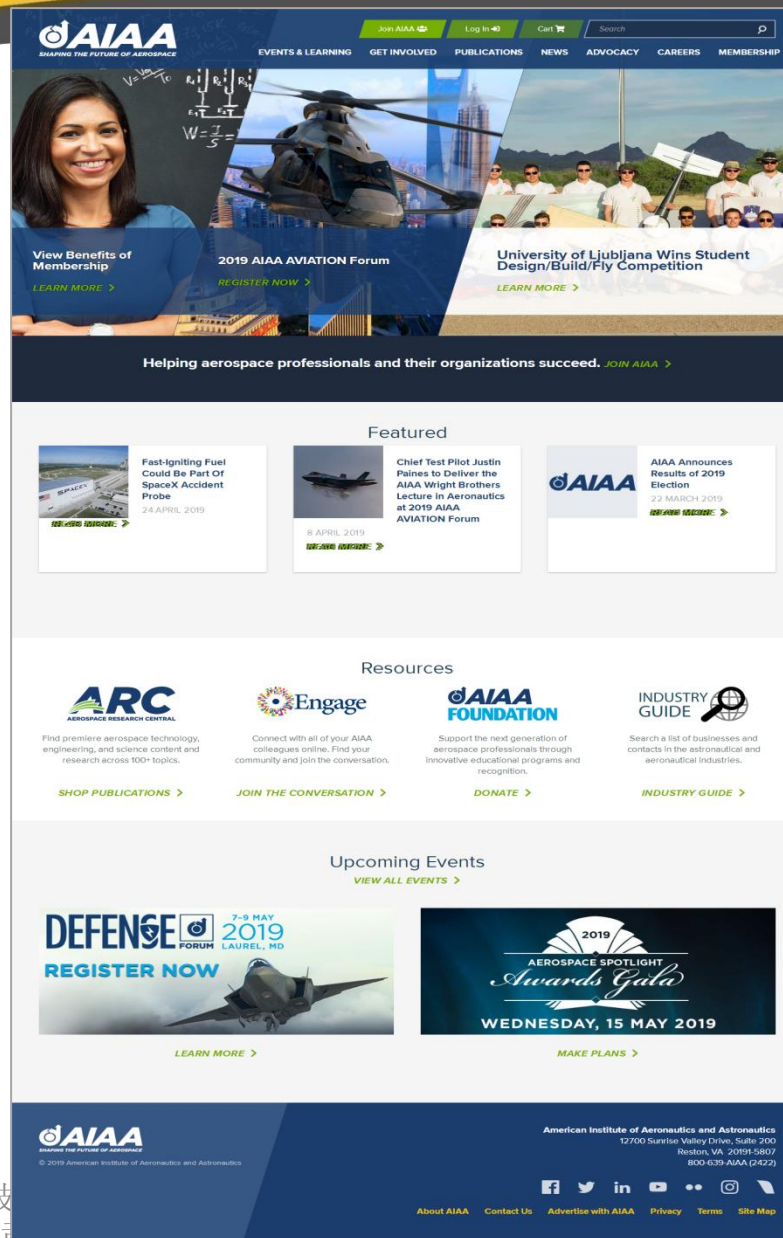
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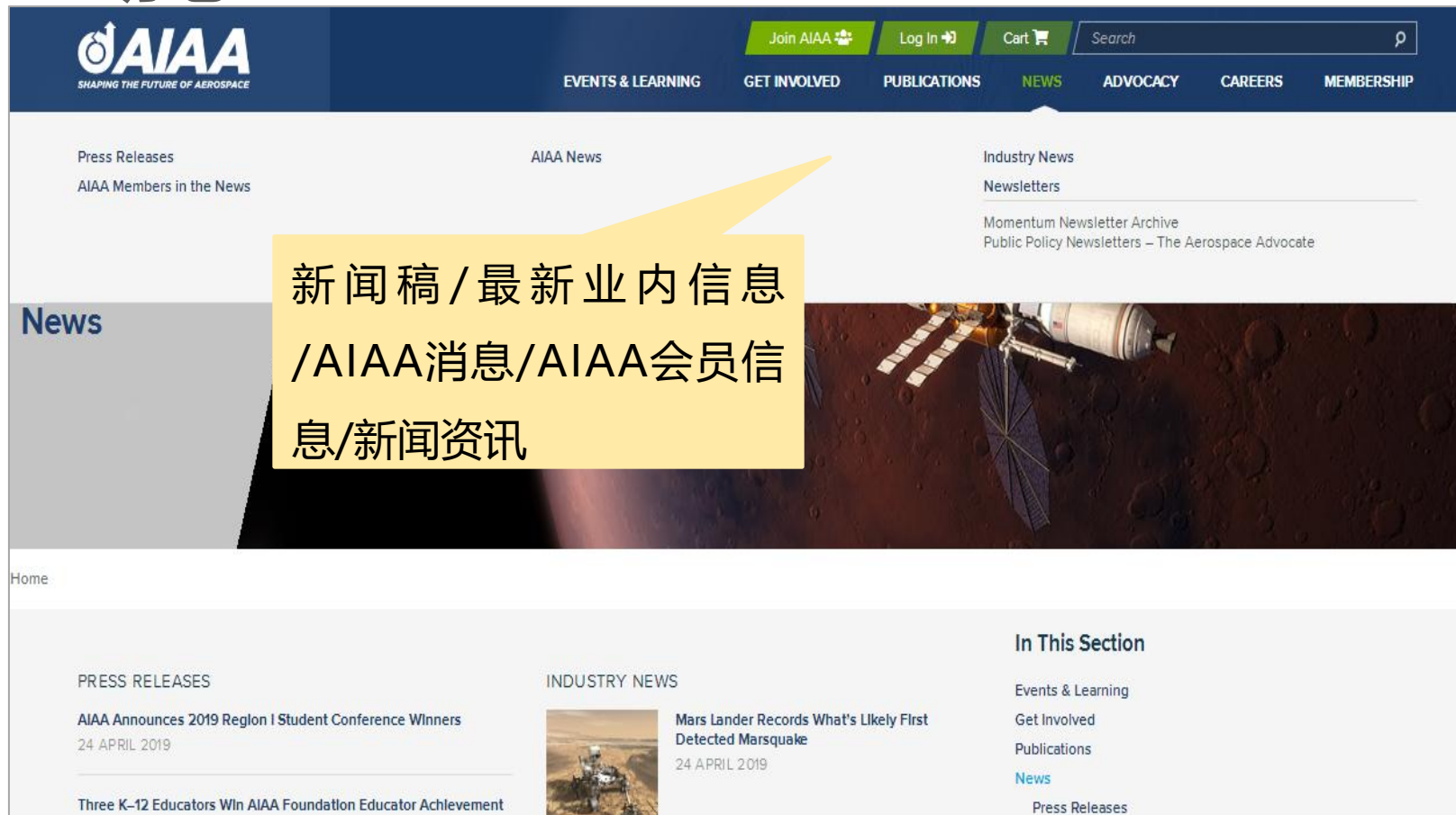


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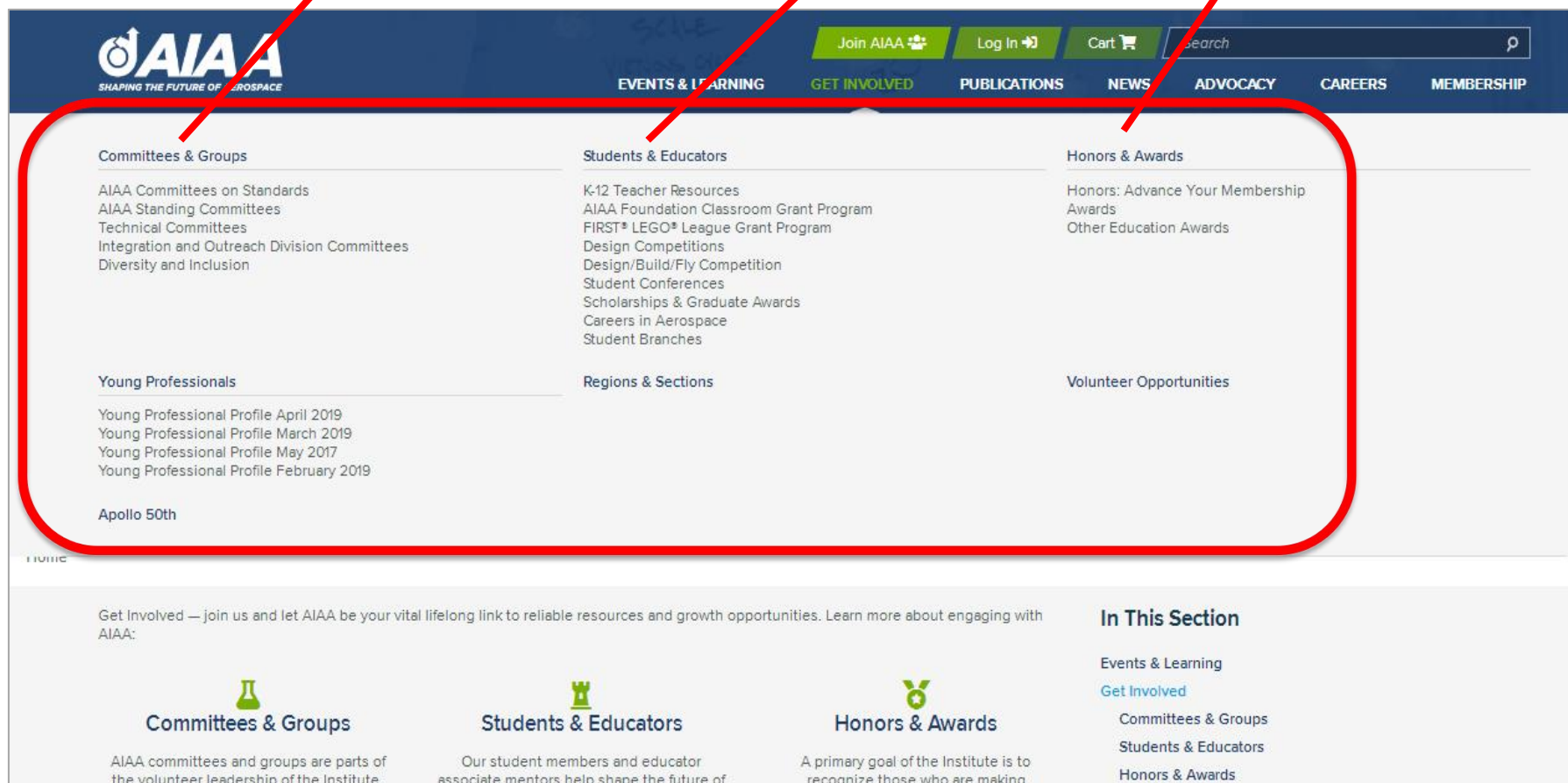


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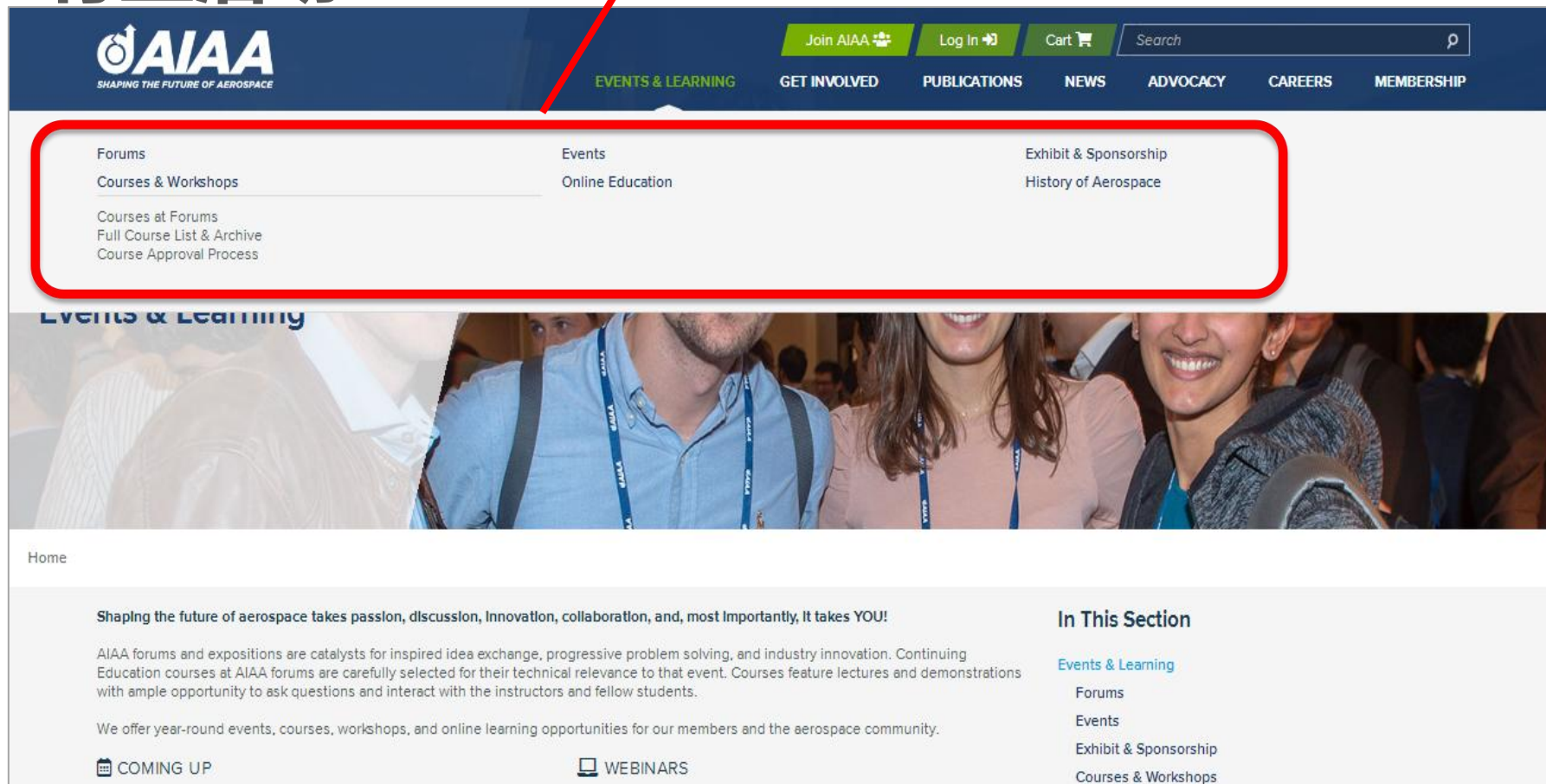
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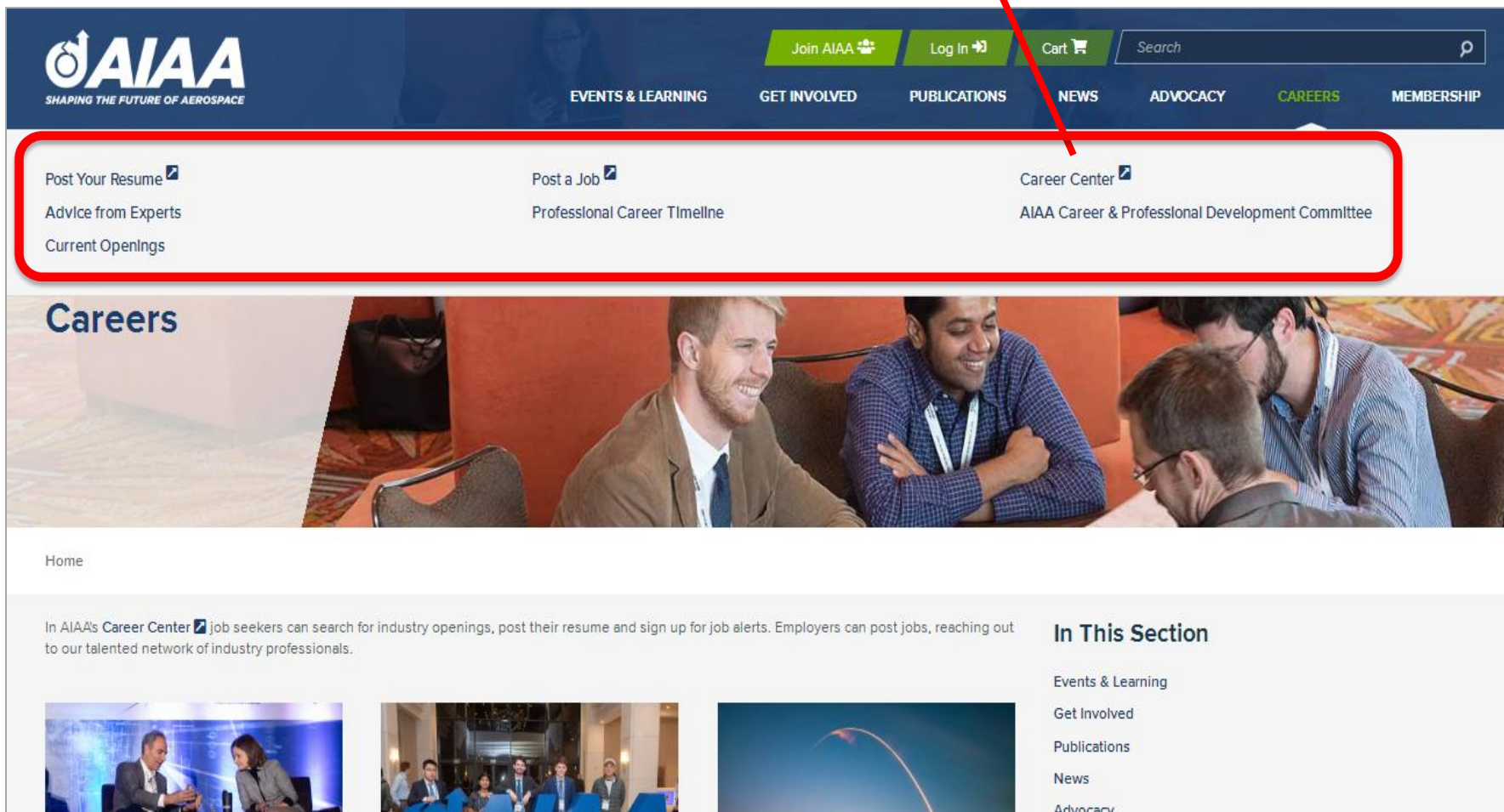
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职业发展

职业中心



The screenshot shows the AIAA Career Center website. The header features the AIAA logo with the tagline "SHAPING THE FUTURE OF AEROSPACE". Navigation links include "EVENTS & LEARNING", "GET INVOLVED", "PUBLICATIONS", "NEWS", "ADVOCACY", "CAREERS" (highlighted in green), and "MEMBERSHIP". User options for "Join AIAA", "Log In", and "Cart" are present, along with a search bar. A red box highlights the "CAREERS" section, which contains links for "Post Your Resume", "Advice from Experts", "Current Openings", "Post a Job", "Professional Career Timeline", "Career Center", and "AIAA Career & Professional Development Committee". Below the header, a "Careers" banner features a photo of three professionals in discussion. A "Home" link is visible. A text block explains the Career Center's purpose for job seekers and employers. An "In This Section" sidebar lists "Events & Learning", "Get Involved", "Publications", "News", and "Advocacy". Three small images at the bottom depict professional settings: a meeting, a group photo, and a rocket launch.

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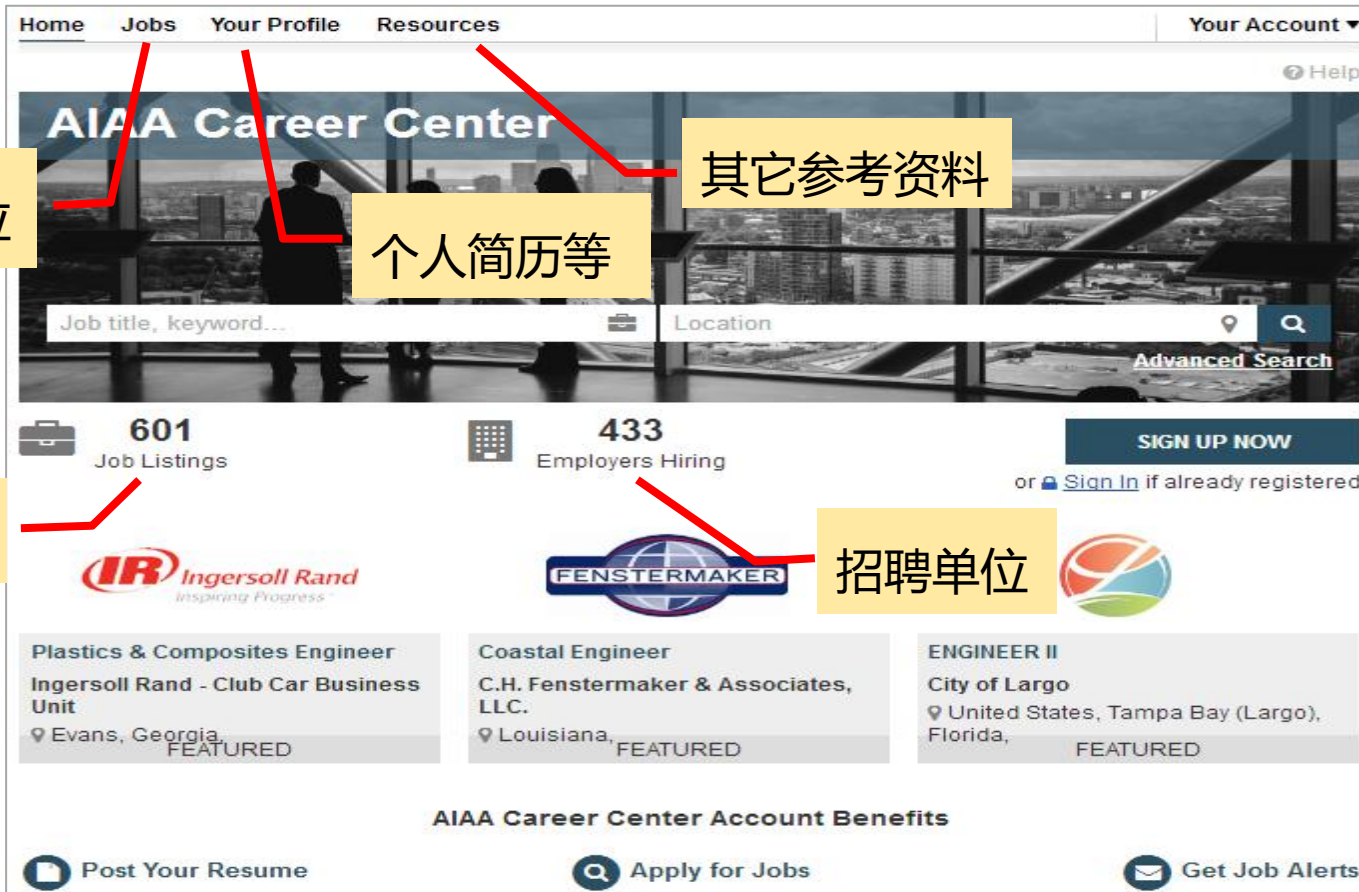
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In AIAA's Career Center job seekers can search for industry openings, post their resume and sign up for job alerts. Employers can post jobs, reaching out to our talented network of industry professionals.

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AIAA Career Center (职业中心)



The screenshot shows the AIAA Career Center website interface. Red lines and yellow boxes highlight specific features:

- 提供的职位** (Jobs Provided): Points to the 'Jobs' tab in the top navigation bar.
- 其它参考资料** (Other Reference Materials): Points to the 'Resources' tab in the top navigation bar.
- 个人简历等** (Resume, etc.): Points to the 'Your Profile' tab in the top navigation bar.
- 职位列表** (Job List): Points to the '601 Job Listings' section.
- 招聘单位** (Employing Units): Points to the '433 Employers Hiring' section.

The website content includes a search bar with fields for 'Job title, keyword...' and 'Location', a 'SIGN UP NOW' button, and a list of featured job listings from companies like Ingersoll Rand and Fenstermaker.

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职位详情

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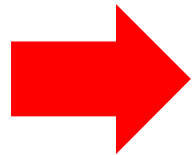
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