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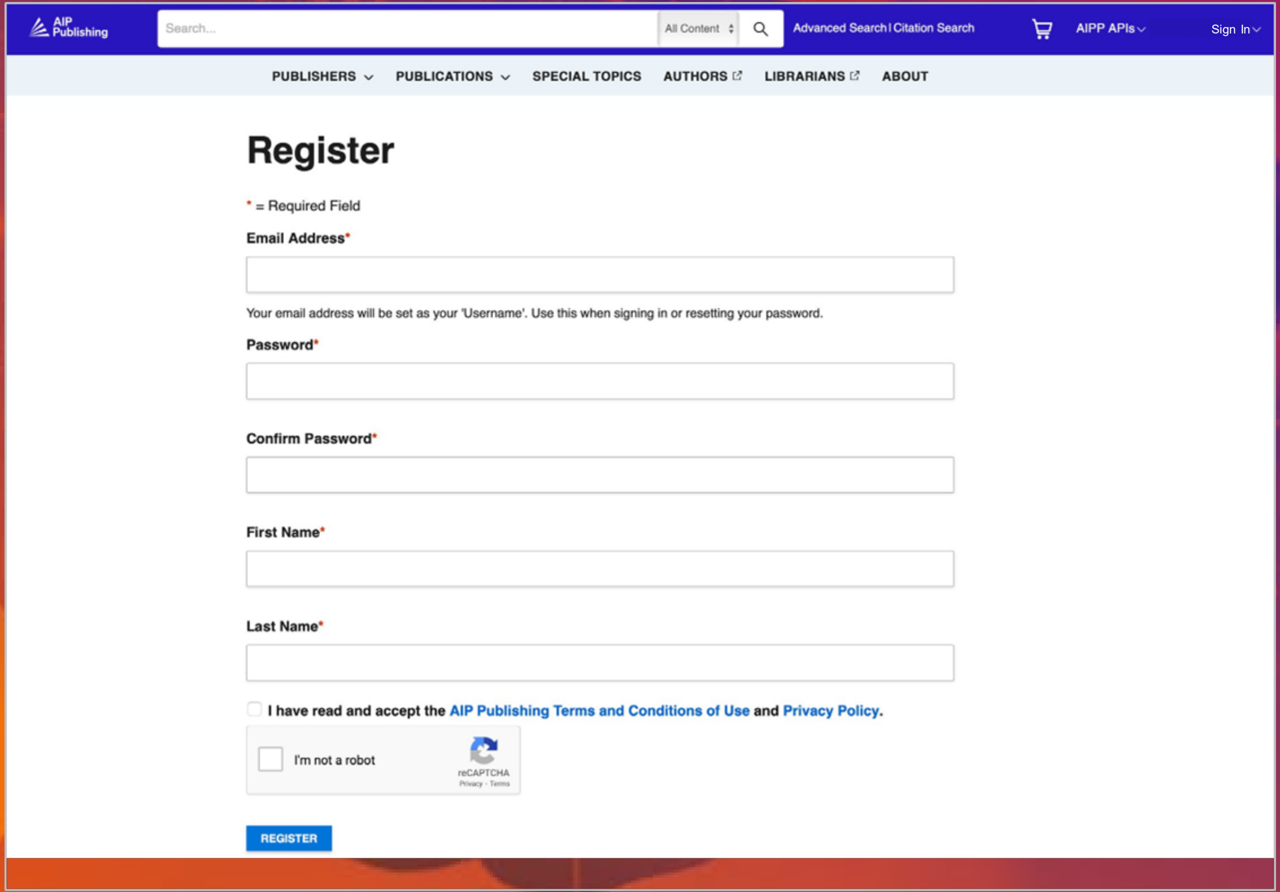

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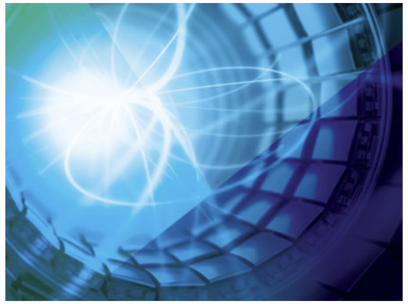

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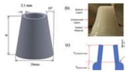

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Ying Liu, Matthew Hildner et al.

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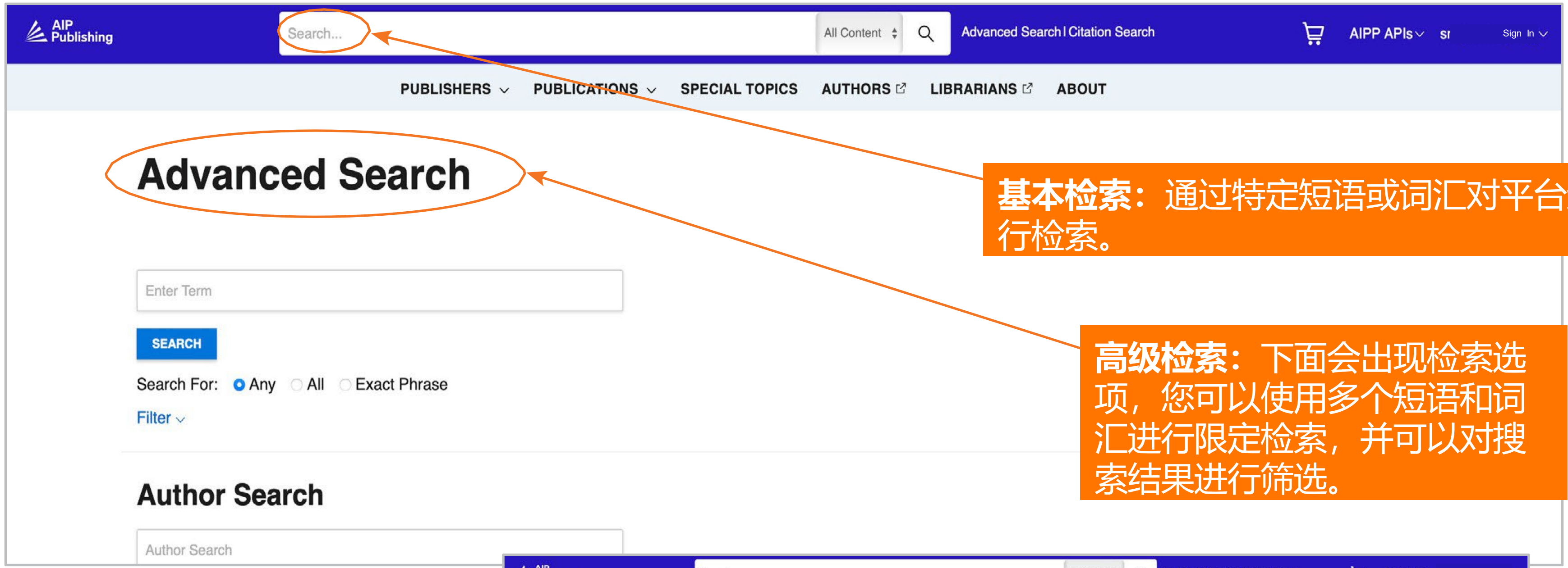


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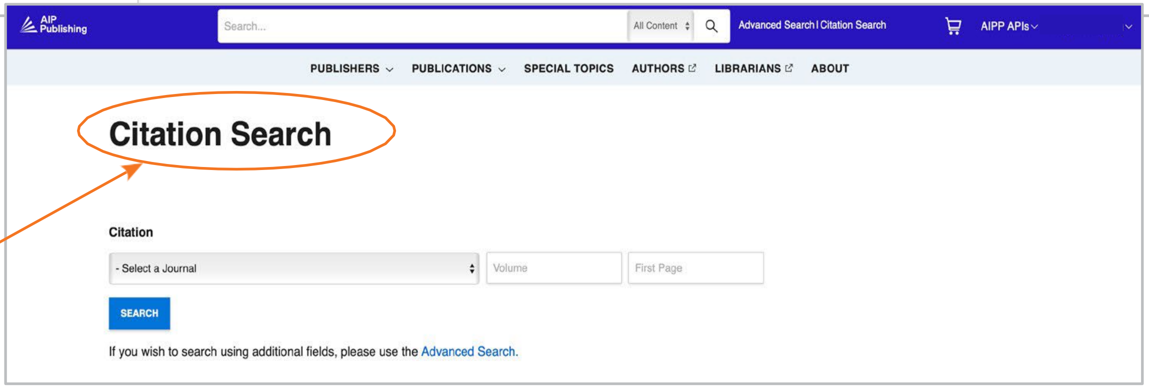


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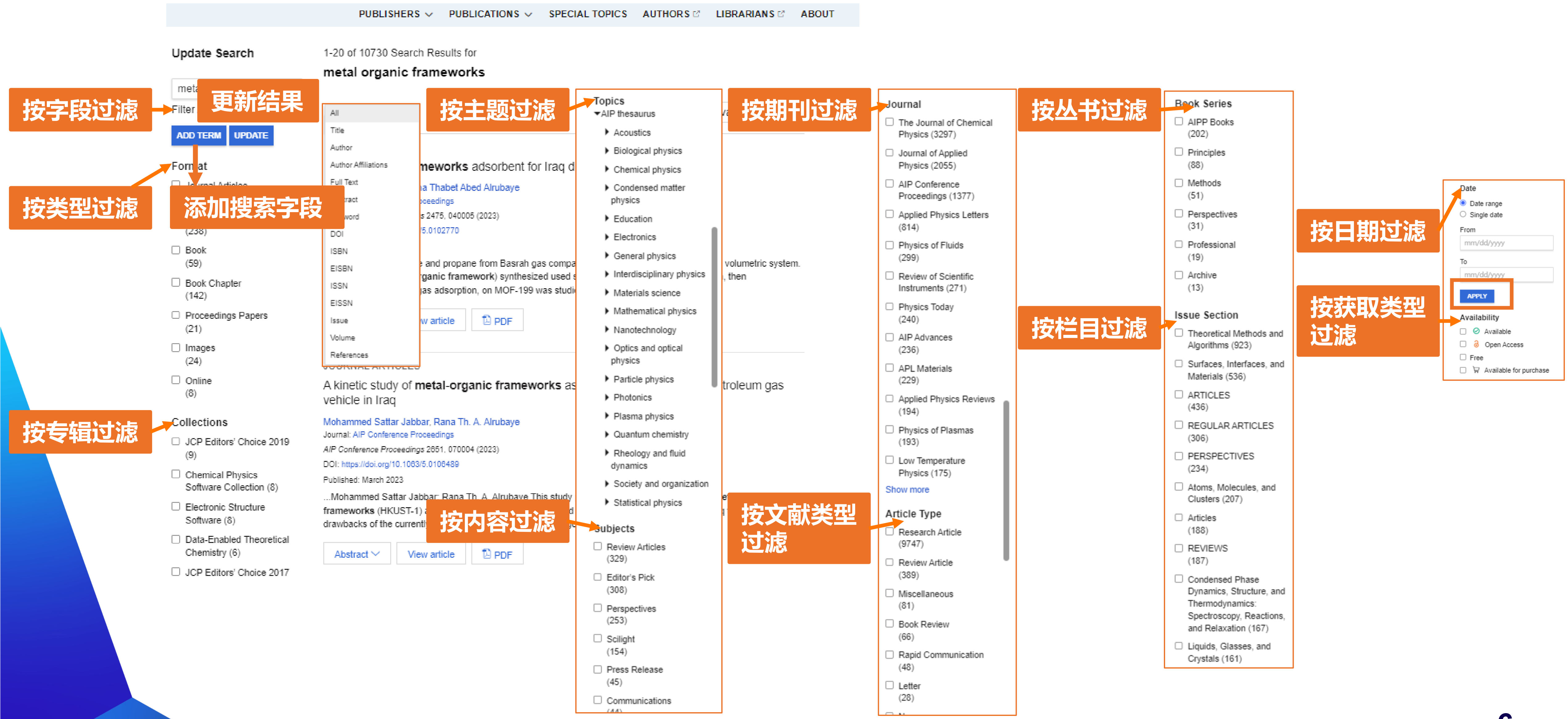

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Title
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Author Affiliations
Full Text
DOI
ISBN
EISBN
ISSN
EISSN
Issue
Volume
References
Format
Book (59)
Book Chapter (142)
Proceedings Papers (21)
Images (24)
Online (8)
按专辑过滤
Collections
JCP Editors' Choice 2019 (9)
Chemical Physics Software Collection (8)
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Mohammed Sattar Jabbar, Rana Th. A. Alrubaye
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Materials science
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Nanotechnology
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Particle physics
Photonics
Plasma physics
Quantum chemistry
Rheology and fluid dynamics
Society and organization
Statistical physics
按内容过滤
Subjects
Review Articles (329)
Editor's Pick (308)
Perspectives (253)
Scilight (154)
Press Release (45)
Communications
按期刊过滤
Journal
The Journal of Chemical Physics (3297)
Journal of Applied Physics (2055)
AIP Conference Proceedings (1377)
Applied Physics Letters (814)
Physics of Fluids (299)
Review of Scientific Instruments (271)
Physics Today (240)
AIP Advances (236)
APL Materials (229)
Applied Physics Reviews (194)
Physics of Plasmas (193)
Low Temperature Physics (175)
Show more
按文献类型过滤
Article Type
Research Article (9747)
Review Article (389)
Miscellaneous (81)
Book Review (66)
Rapid Communication (48)
Letter (28)
按丛书过滤
Book Series
AIPP Books (202)
Principles (88)
Methods (51)
Perspectives (31)
Professional (19)
Archive (13)
按栏目过滤
Issue Section
Theoretical Methods and Algorithms (923)
Surfaces, Interfaces, and Materials (536)
ARTICLES (436)
REGULAR ARTICLES (306)
PERSPECTIVES (234)
Atoms, Molecules, and Clusters (207)
Articles (188)
REVIEWS (187)
Condensed Phase Dynamics, Structure, and Thermodynamics: Spectroscopy, Reactions, and Relaxation (167)
Liquids, Glasses, and Crystals (161)
按日期过滤
Date
Date range
Single date
From
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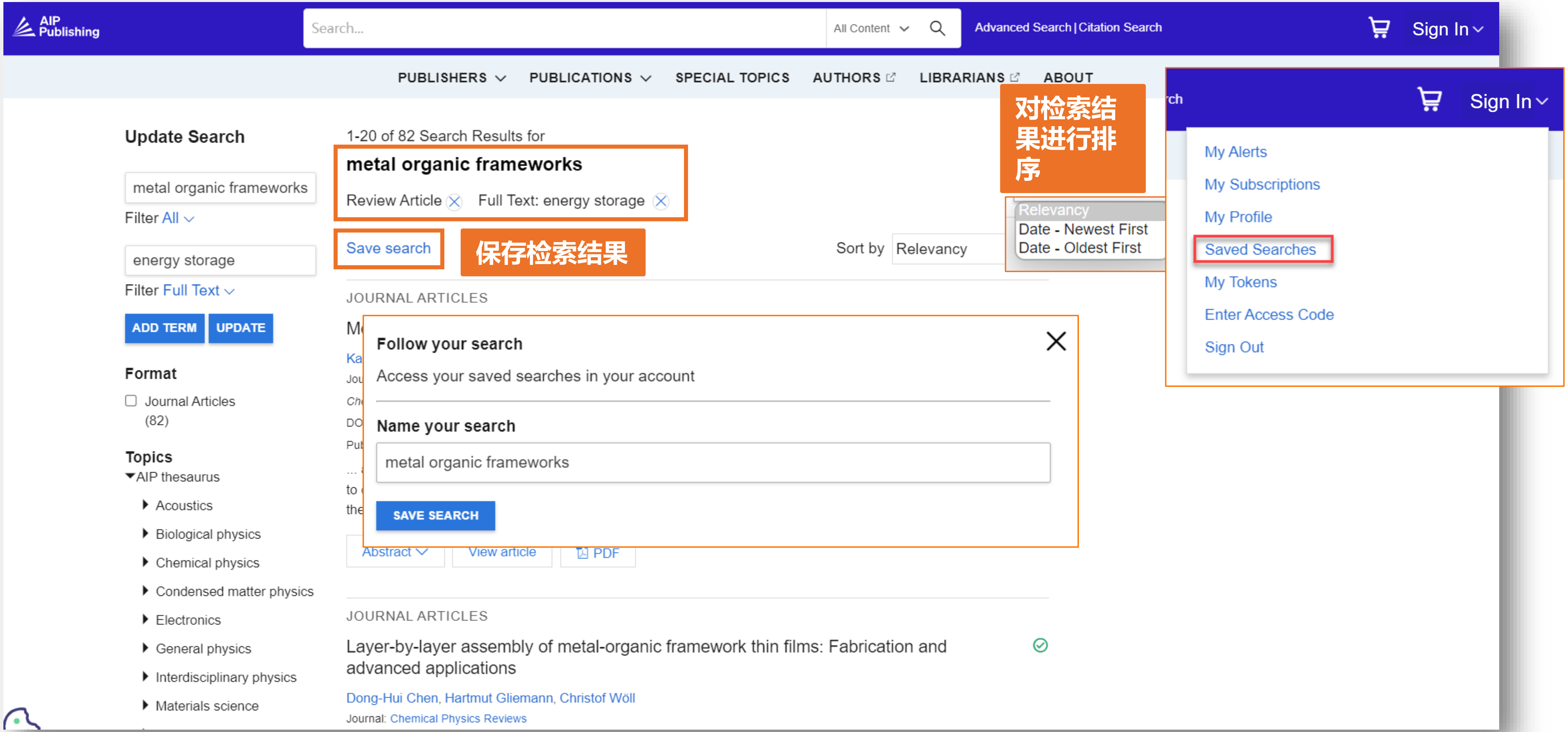


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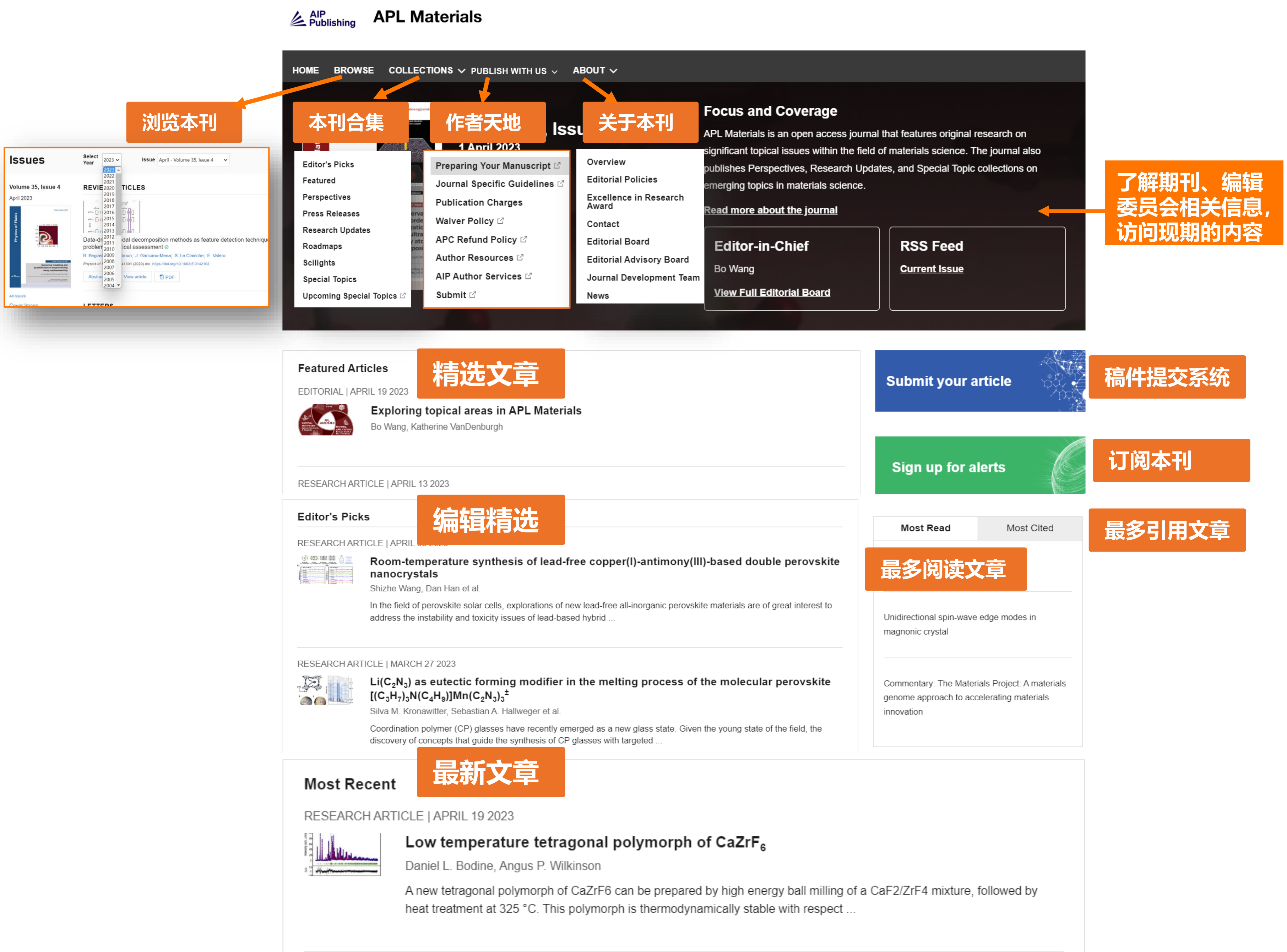

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HOME
BROWSE
COLLECTIONS
PUBLISH WITH US
ABOUT
浏览本刊
本刊合集
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Issues
Volume 35, Issue 4
April 2023
Editor's Picks
Featured
Perspectives
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Scilights
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Computational study on the transmission of the SARS-CoV-2 virus through aerosol in an elevator cabin: Effect of the ventilation system
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computationally and include human respiratory events, locations of the infected person(s), and the ventilation system (ventilation mode, ventilation capacity, and vent schemes). "Breath," "cough," and "sneeze" are defined quantitatively by the fluid jet velocities and particle sizes. For natural ventilation, most particles exhaled by sneezing and coughing tend to deposit on surfaces quickly, but aerosol generated by breathing will remain suspended in the air longer. For forced ventilation, motions of particles under different ventilation capacities are compared. Larger particles otherwise deposited readily on solid surfaces may be slowed down by airflow. Air currents also accelerate the motions of smaller particles, facilitating the subsequent deposition of micrometer or sub-micrometer particles. Locations of the infected person(s) lead to different spreading scenarios due to the distinctive motions of the particles generated by the various respiratory events. Sneeze particles will likely contaminate the person in front of the infected passenger only. Cough particles will increase the risk of all the people around the injector. Breath particles tend to spread throughout the confined environment. An optimized vent scheme is introduced and can reduce particles suspended in the air by up to 80% as compared with commonly used schemes. The purification function of this vent model is robust to various positions of the infected passenger.
I. INTRODUCTION
Article Contents
I. INTRODUCTION
II. METHODS
A. Computational Domain And Mesh
B. Respiratory Flows And Particles
C. Ventilation System
D. Mathematical Model
E. Numerical Method
F. Case Study
III. RESULTS AND DISCUSSION
A. The Effect Of Respiratory Events
B. The Effect Of Ventilation Mode And Capacity
C. The Effect Of The Position Of Infected Passenger
D. The Effect Of Vent Schemes
E. The Performance Of The Optimized Vent Scheme
IV. CONCLUSIONS
ACKNOWLEDGMENTS
AUTHOR DECLARATIONS
Conflict Of Interest
8
View Metrics
Citing Articles Via
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II. METHODS
A. Computational Domain And Mesh
B. Respiratory Flows And Particles
C. Ventilation System
D. Mathematical Model
E. Numerical Method
F. Case Study
III. RESULTS AND DISCUSSION
A. The Effect Of Respiratory Events
B. The Effect Of Ventilation Mode And Capacity
C. The Effect Of The Position Of Infected Passenger
D. The Effect Of Vent Schemes
E. The Performance Of The Optimized Vent Scheme
IV. CONCLUSIONS
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Conflict Of Interest
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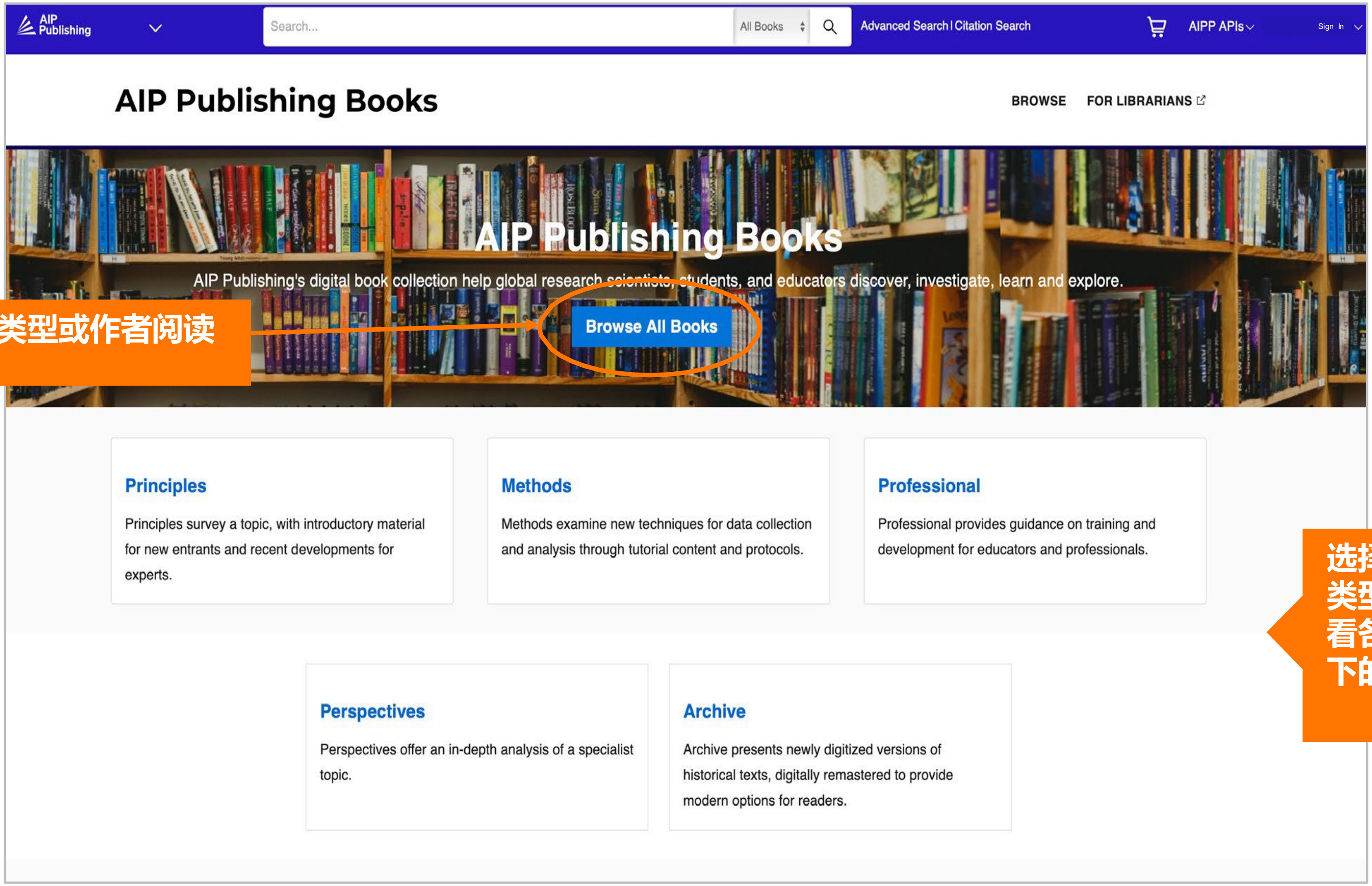


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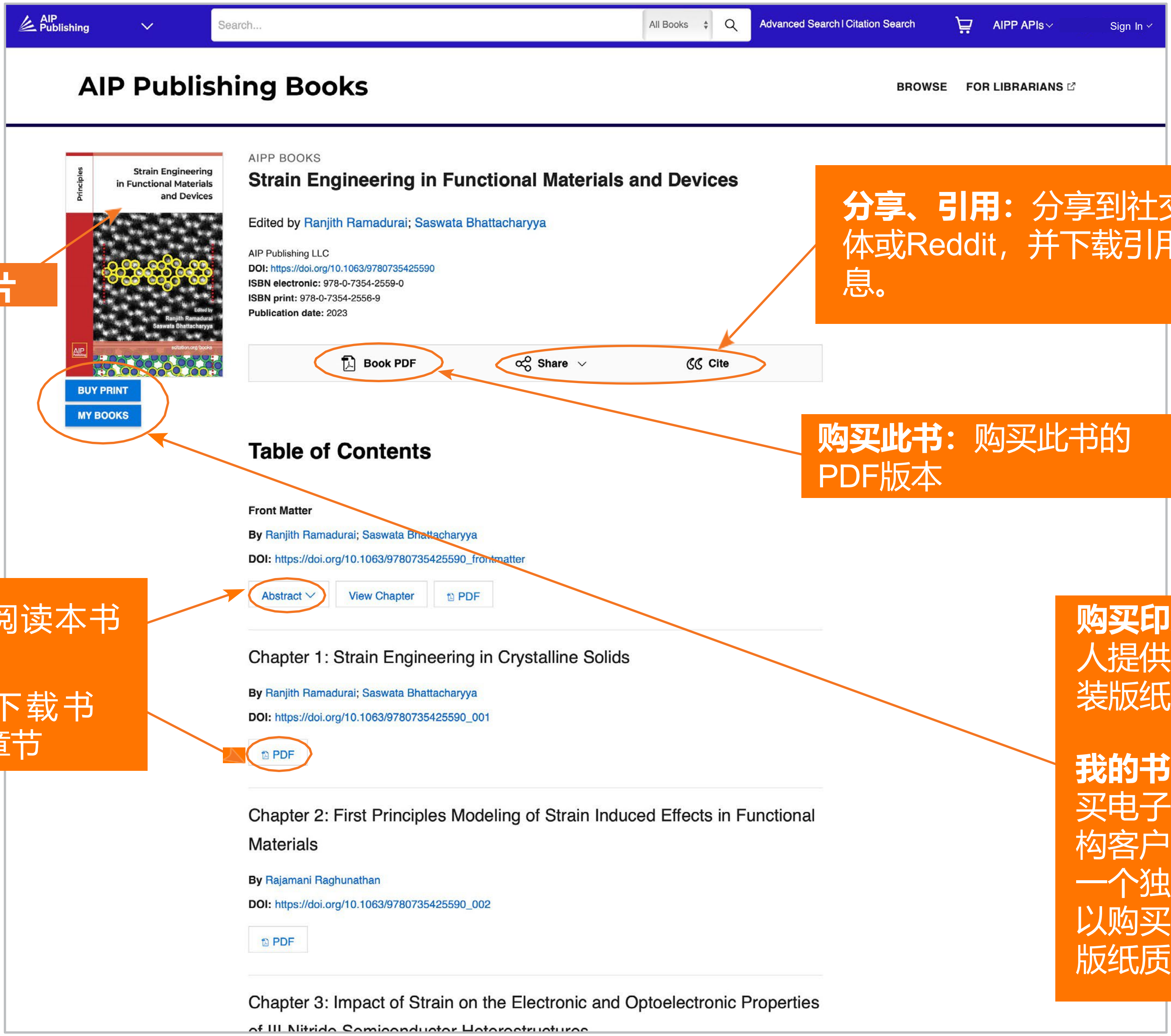


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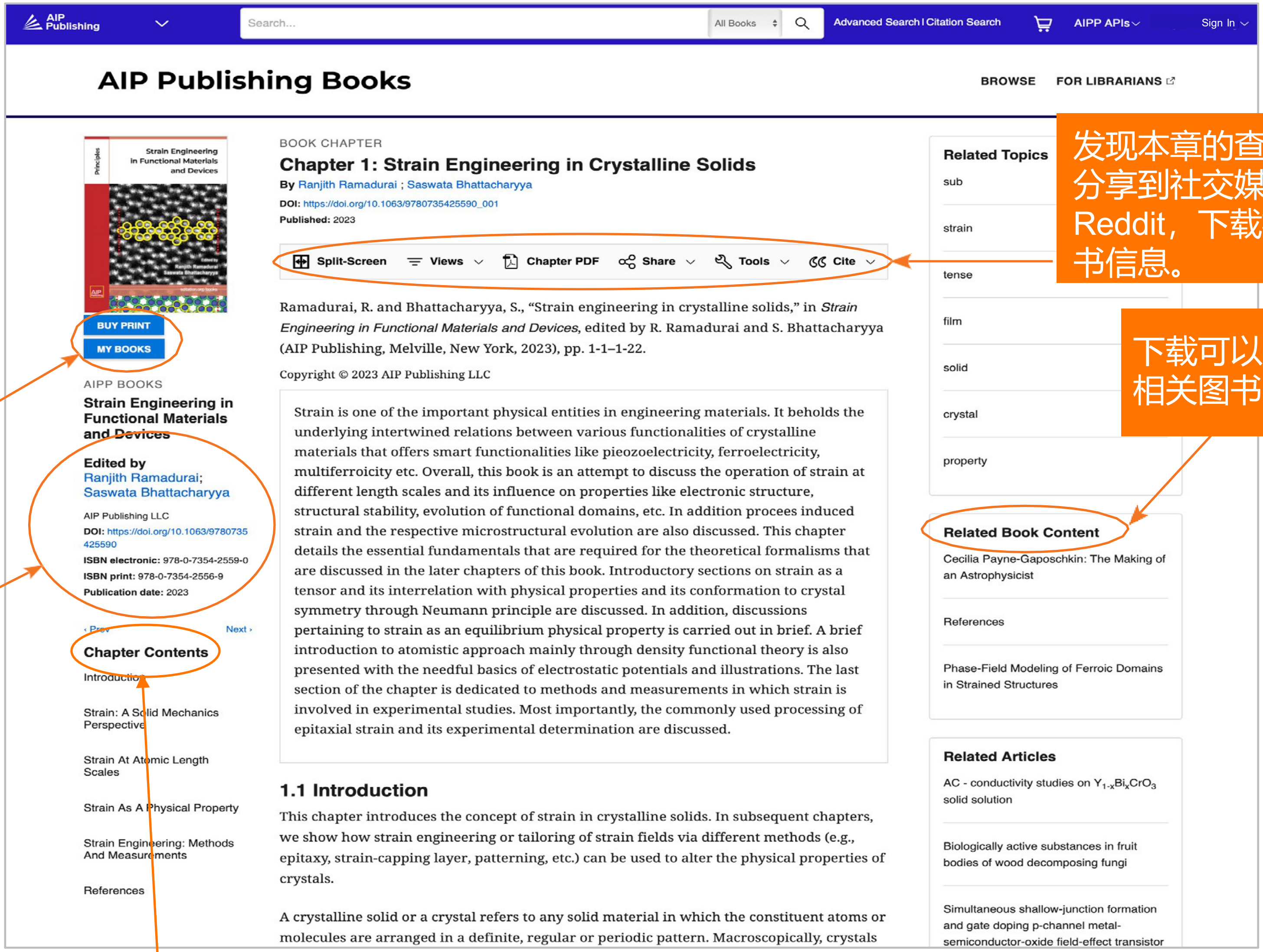


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