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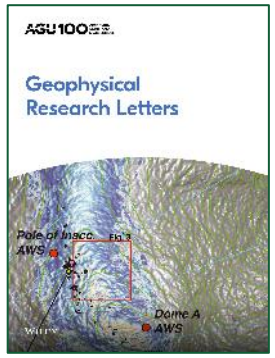
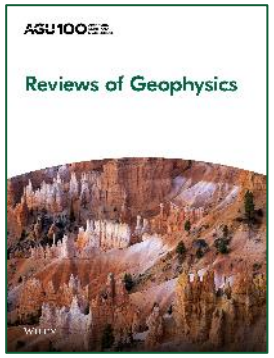
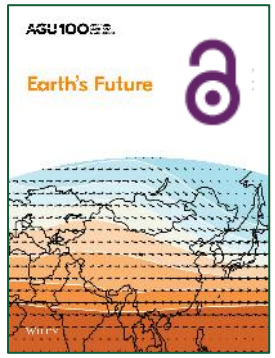
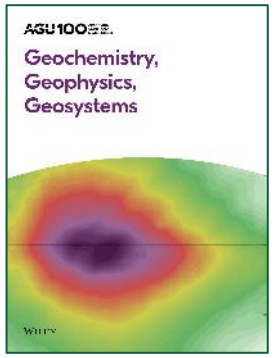
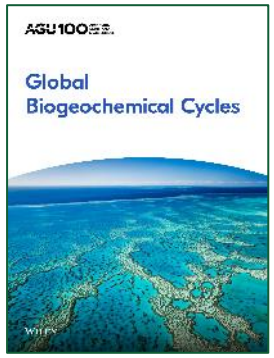
22本期刊涵盖地球与空间科学以及环境,健康等交叉学科

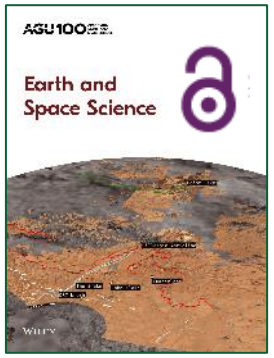


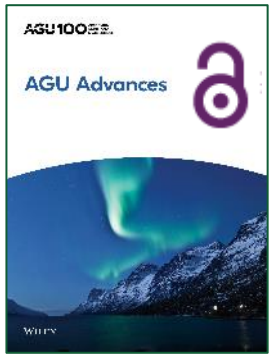


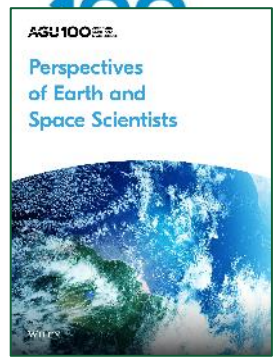


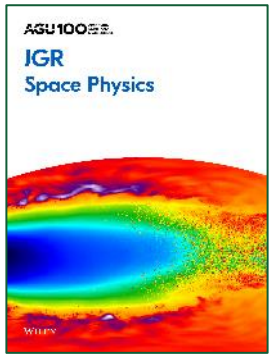


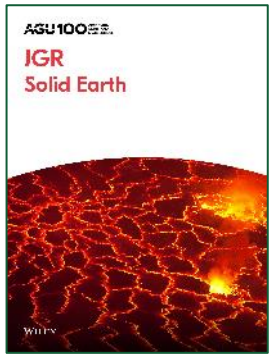


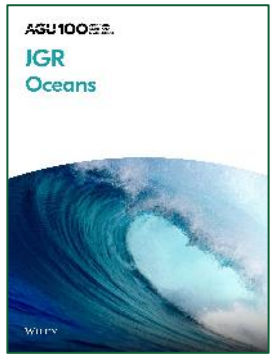


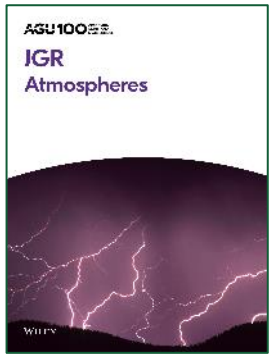


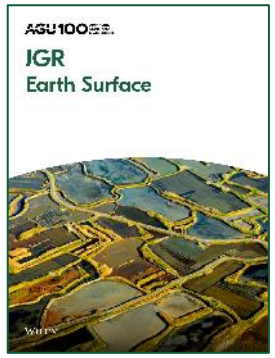


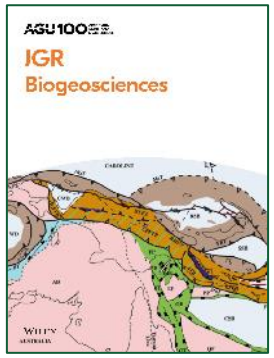


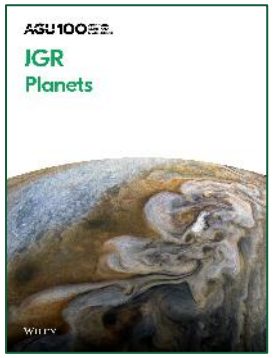


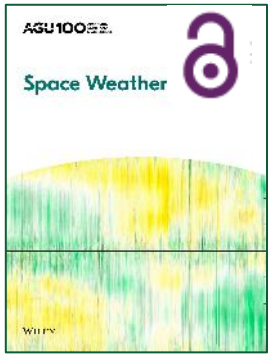


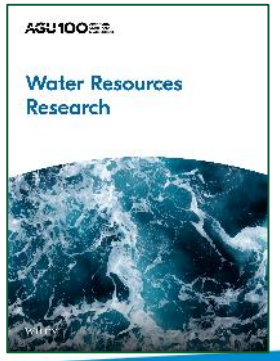


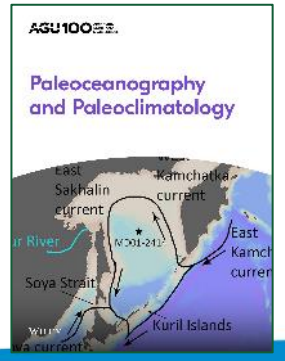


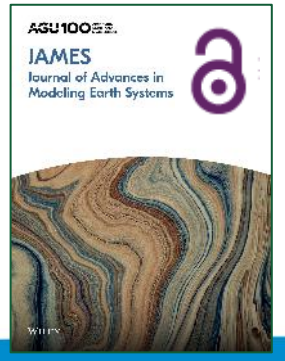


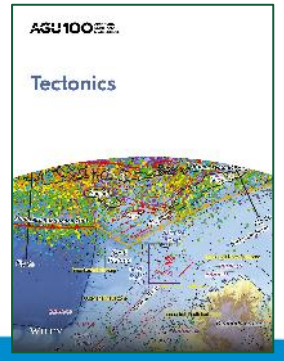


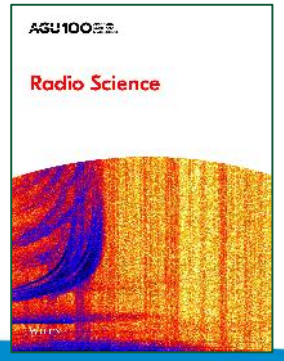












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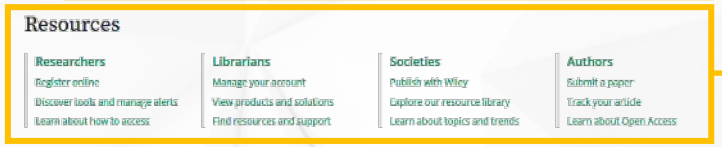

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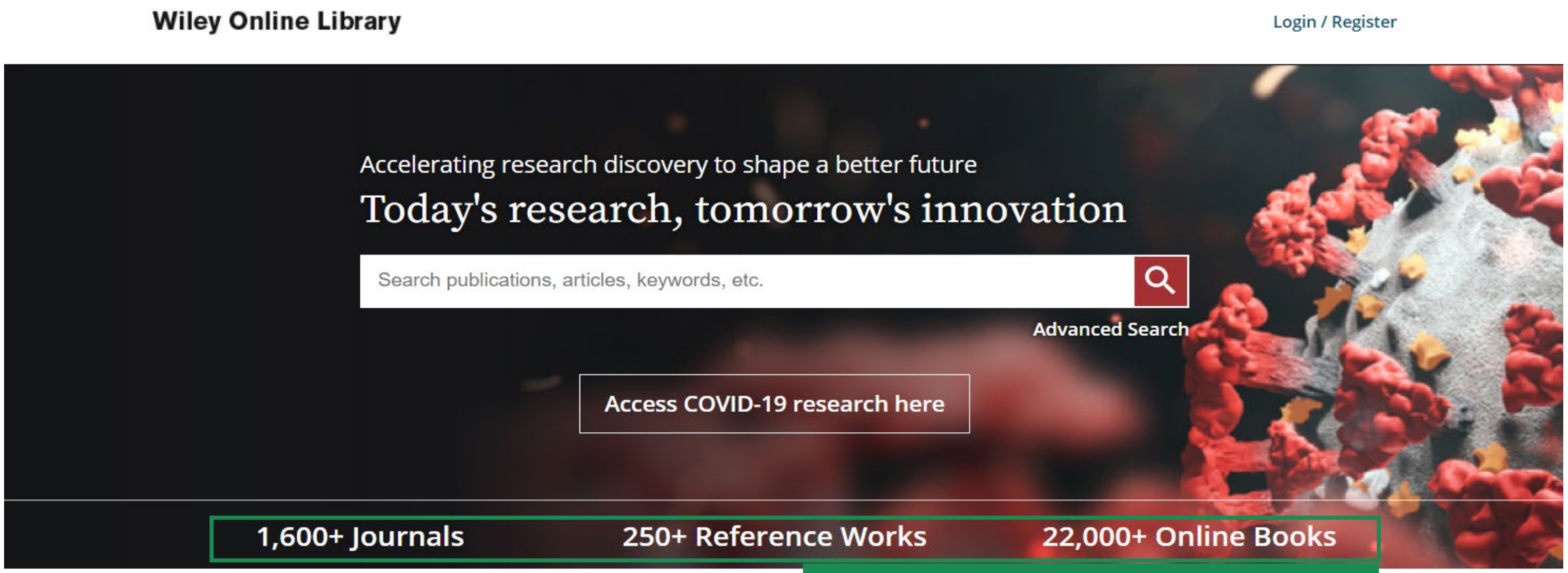

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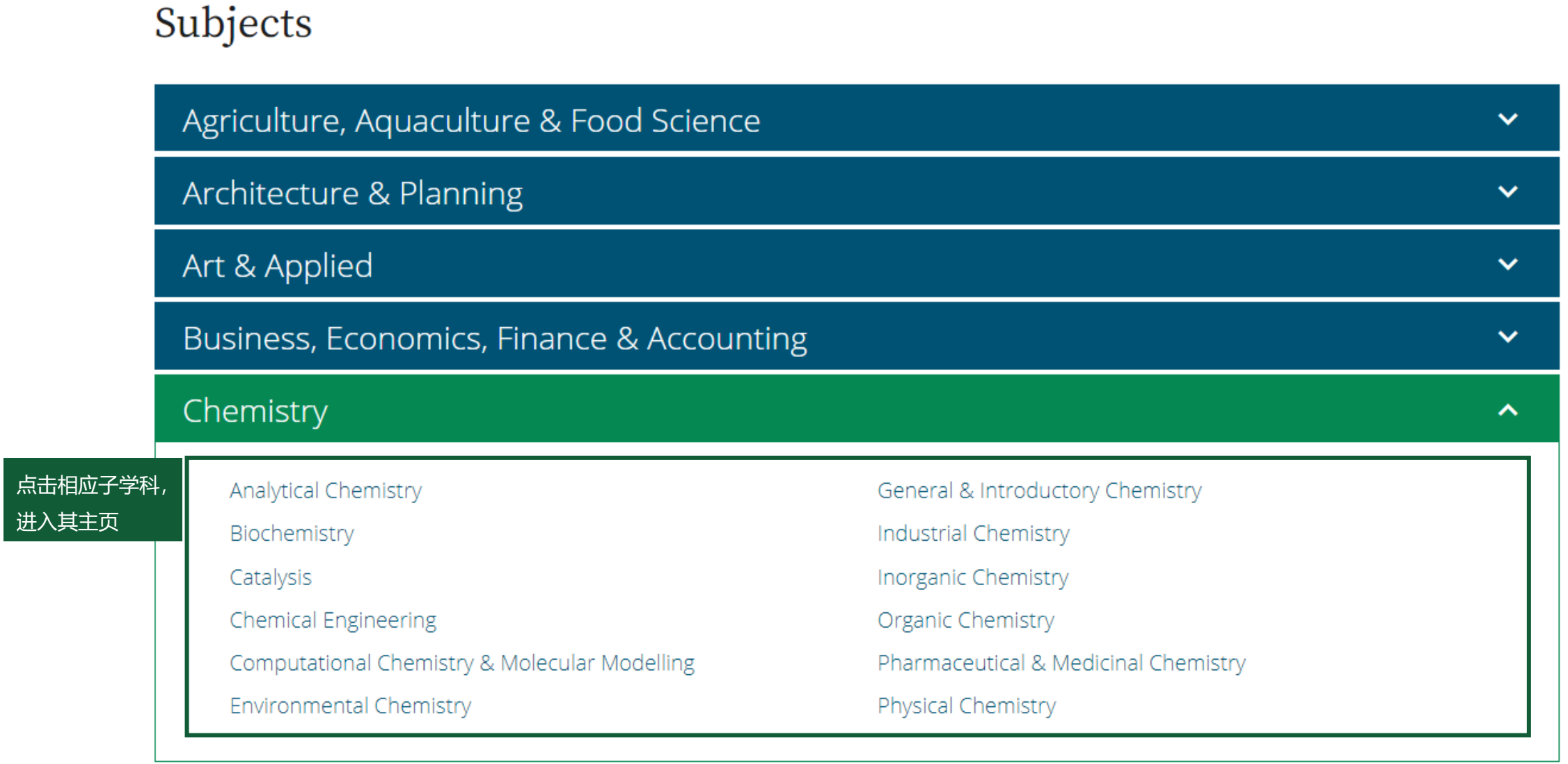

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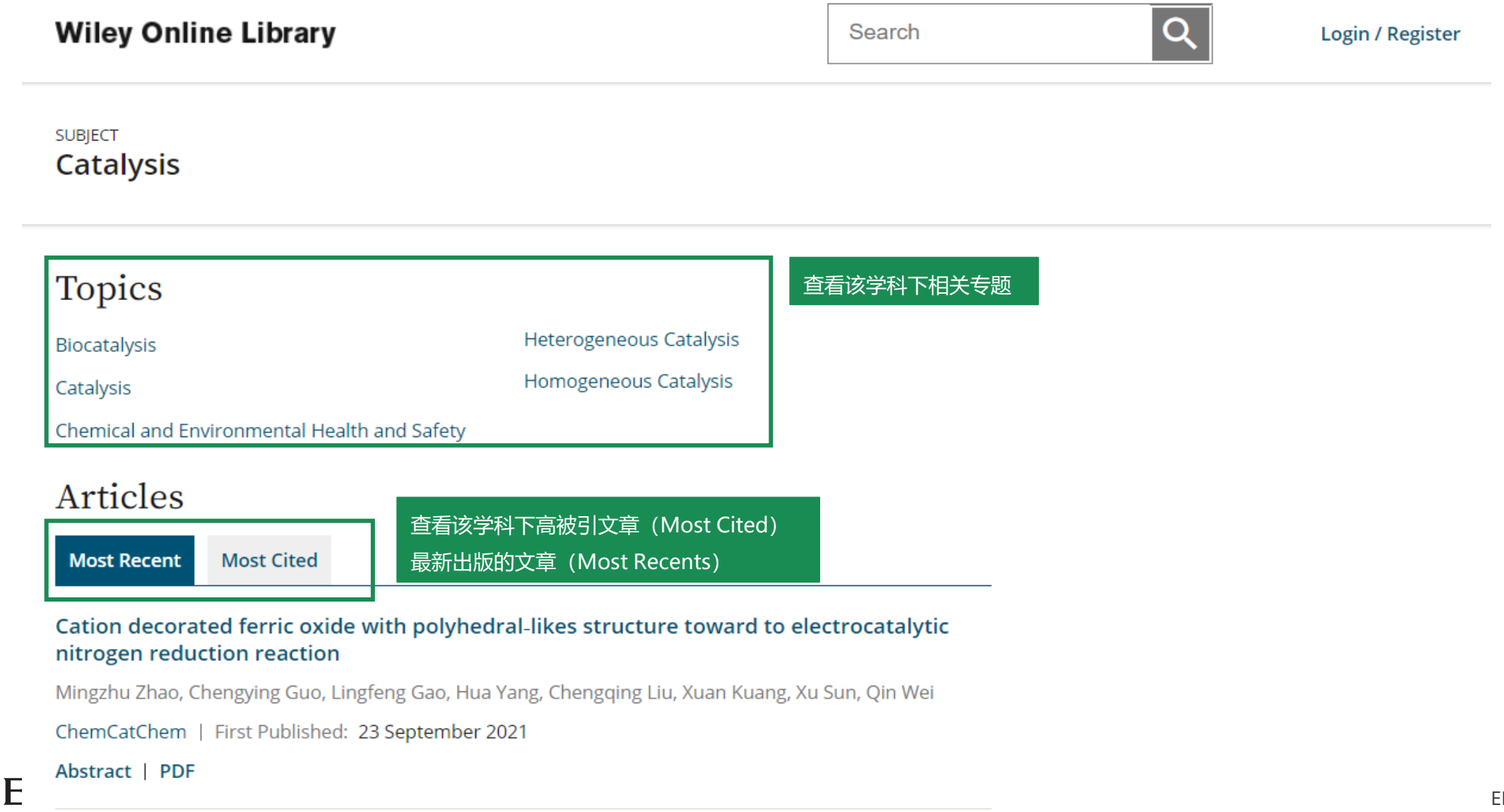

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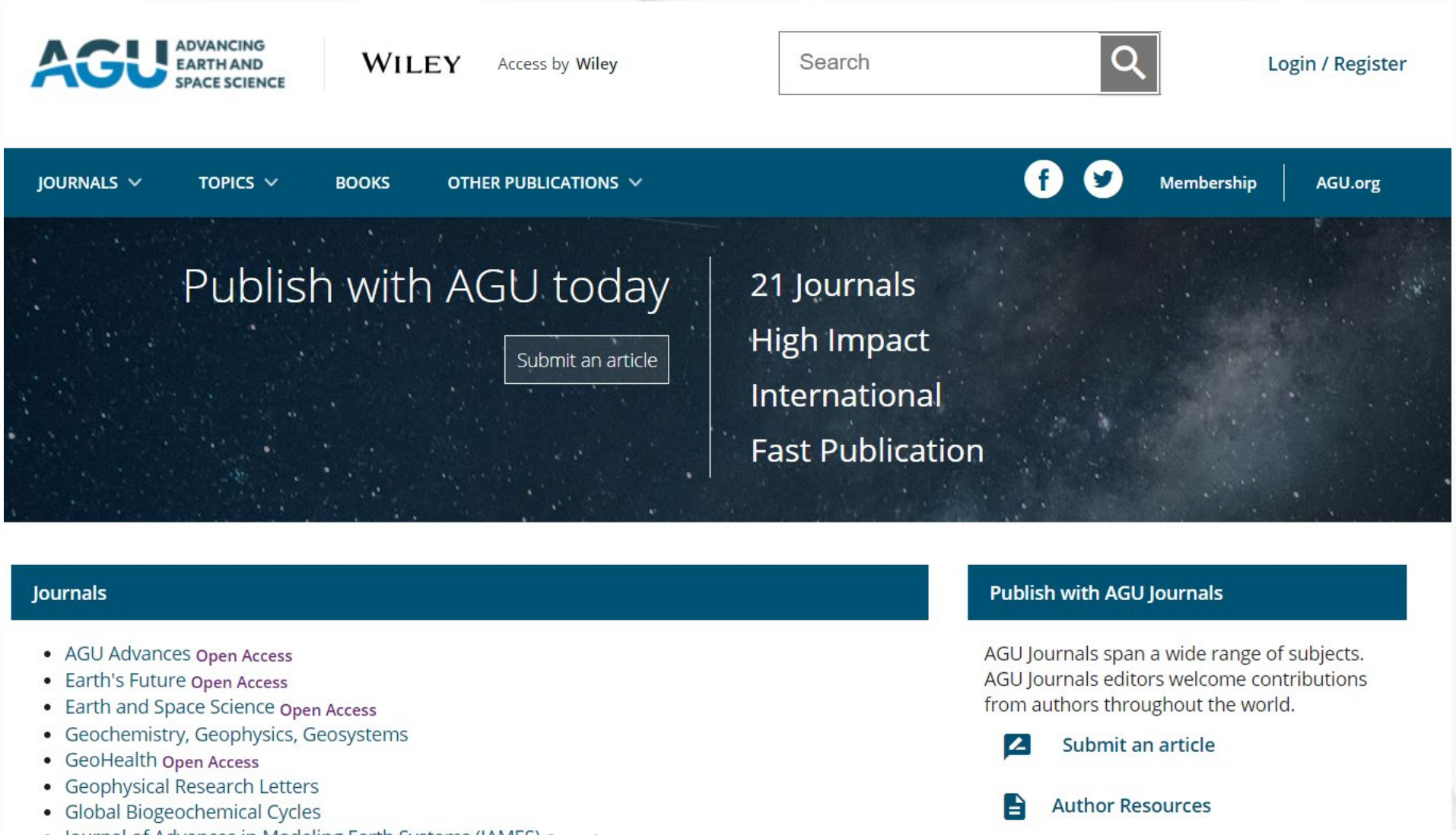
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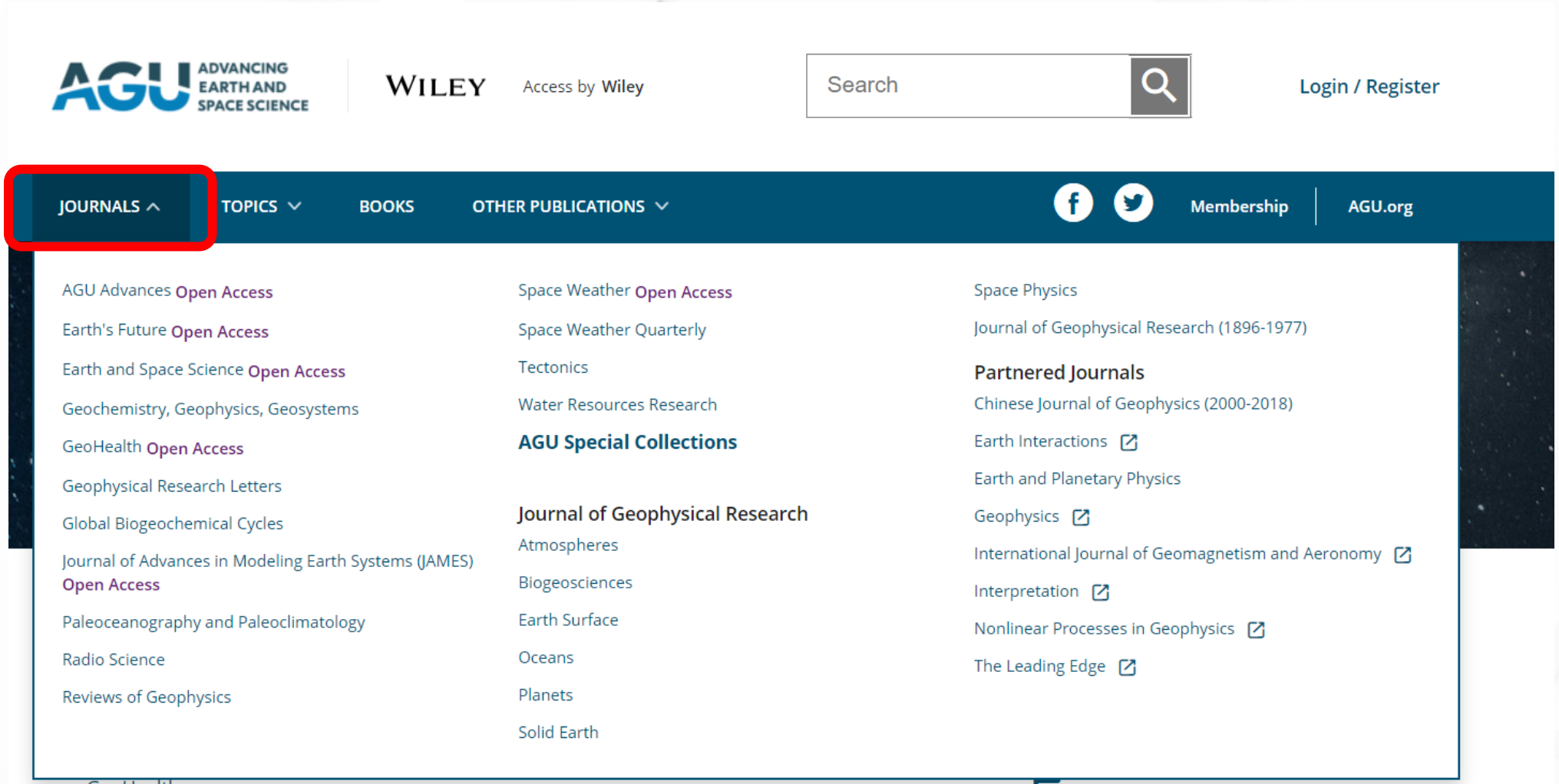
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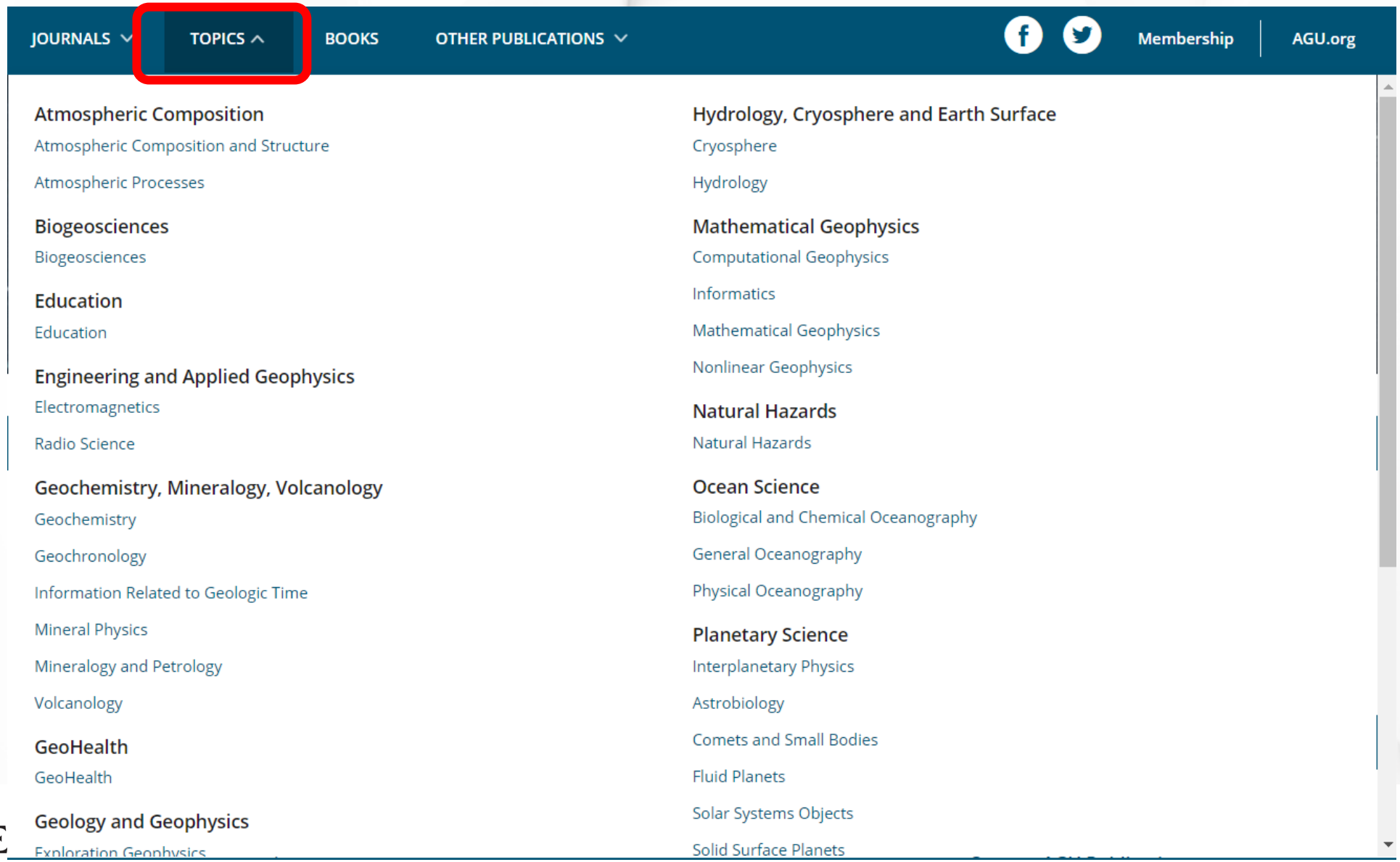
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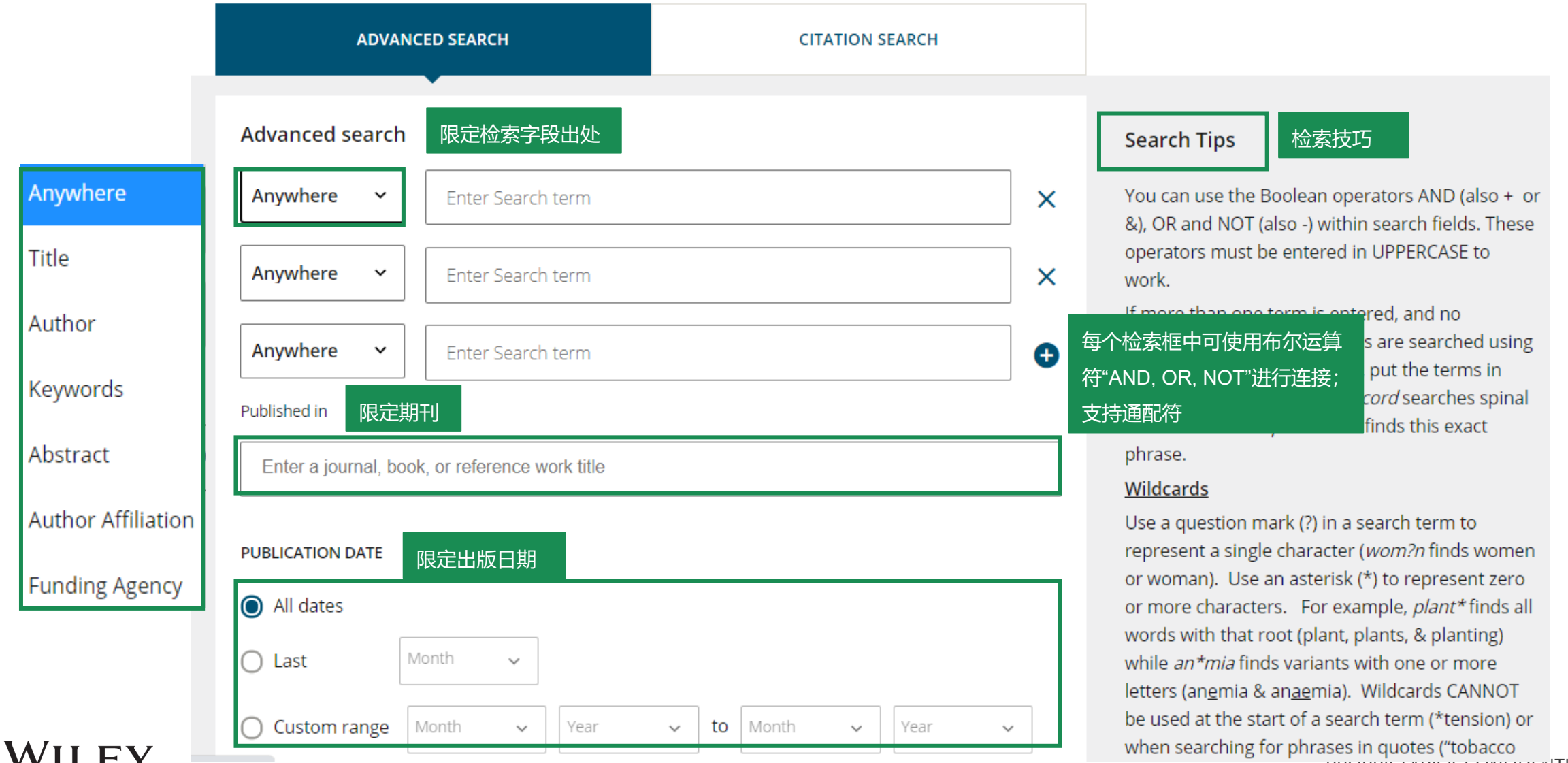

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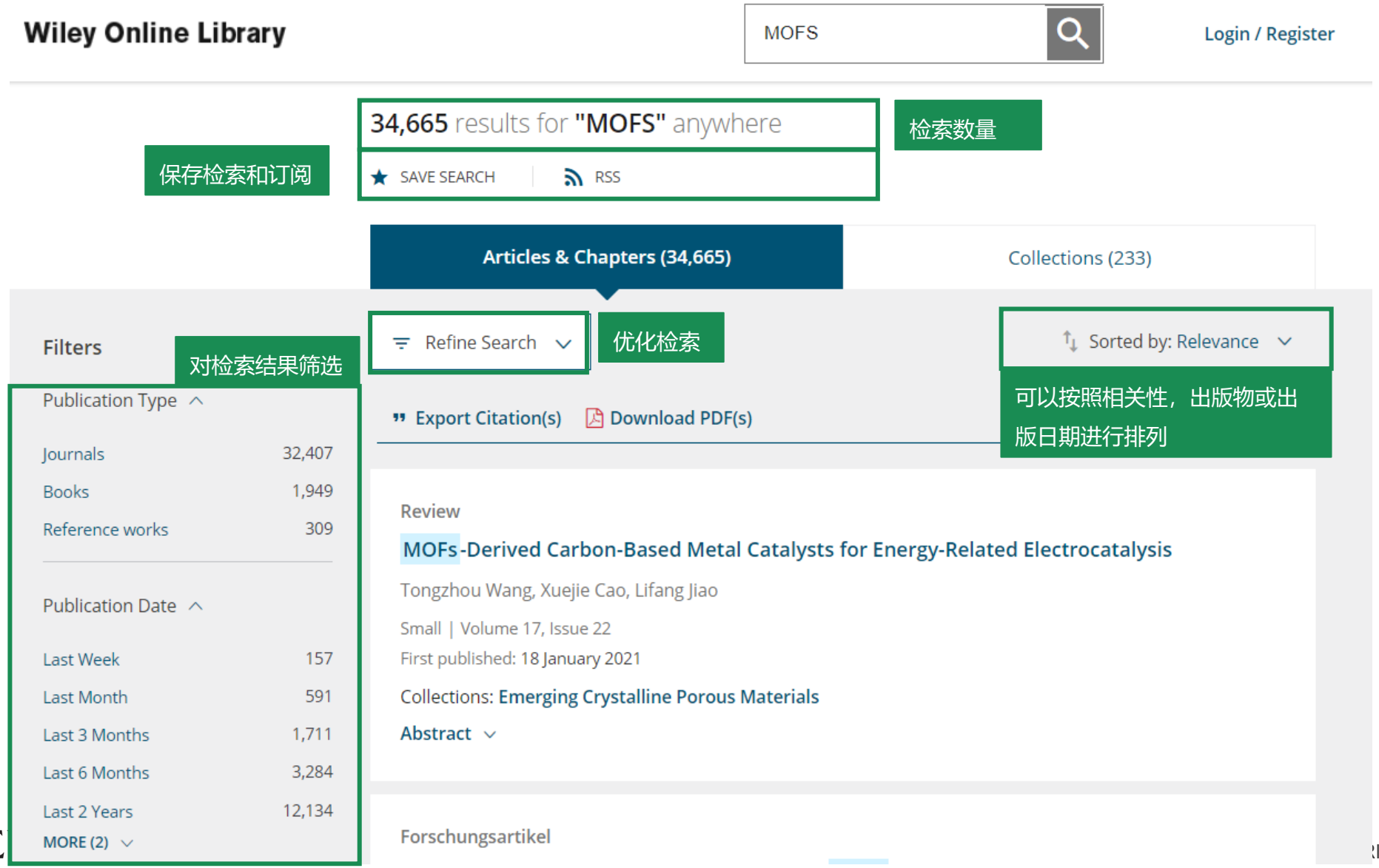

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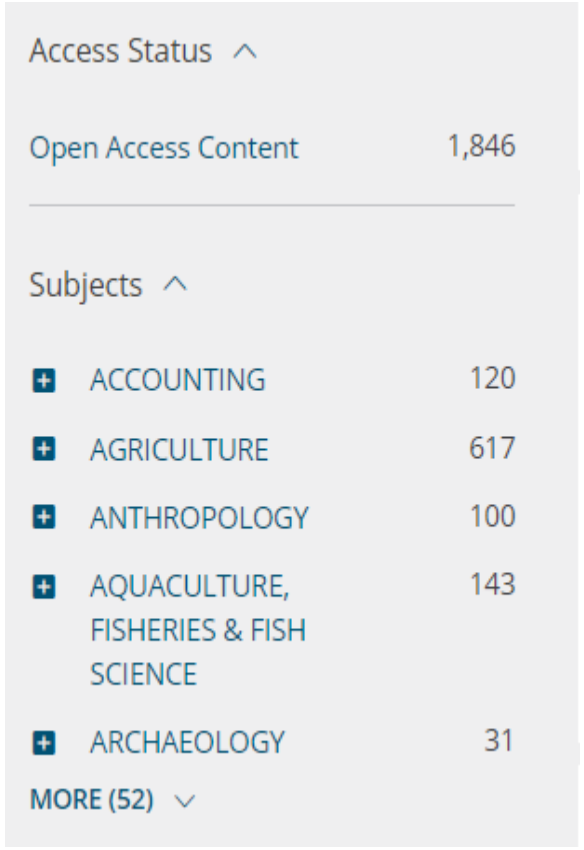

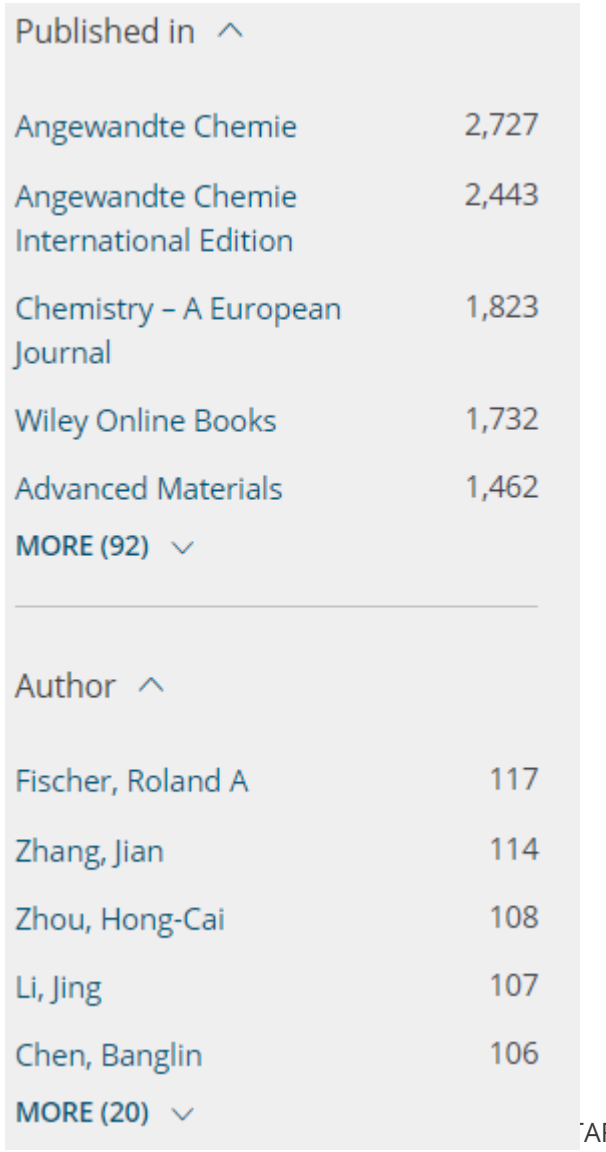

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ADVANCED MATERIALS

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Heterogeneous Functional Dielectric Patterns for Charge-Carrier Modulation in Ultraflexible Organic Integrated Circuits

Koki Taguchi, Takafumi Uemura, Naoko Namba, Andreas Petritz, Teppei Araki, Masahiro Sugiyama, Barbara Stadlober, Tsuyoshi Sekitani

First published: 21 September 2021 | https://doi.org/10.1002/adma.202104446

Abstract

Flexible electronics have gained considerable attention for application in wearable devices. Organic transistors are potential candidates to develop flexible integrated circuits (ICs). A primary technique for maximizing their reliability, gain, and operation speed is the modulation of charge-carrier behavior in the respective transistors fabricated on the same substrate. In this work, heterogeneous functional dielectric patterns (HFDP) of ultrathin polymer gate dielectrics of poly((±)endo,exo-bicyclo[2.2.1]hept-ene-2,3-dicarboxylic acid, diphenylester) (PNDPE) are introduced. The HFDP that are obtained via the photo-Fries rearrangement by ultraviolet radiation in the homogeneous PNDPE provide a functional area for charge-carrier modulation. This leads to programmable threshold voltage control over a wide range (−1.5 to +0.2 V) in the transistors with a high patterning resolution, at 2 V operational voltage. The transistors also exhibit high operational stability over 140 days and under the bias-stress duration of 1800 s. With the HFDP, the performance metrics of ICs, for example, the noise margin and gain of the zero-V_{GS} load inverters and the oscillation frequency of ring oscillators are improved to 80%, 1200, and 2.5 kHz, respectively, which are the highest among the previously reported zero-V_{GS}-based organic circuits. The HFDP can be applied to much complex and ultraflexible ICs.

Early View
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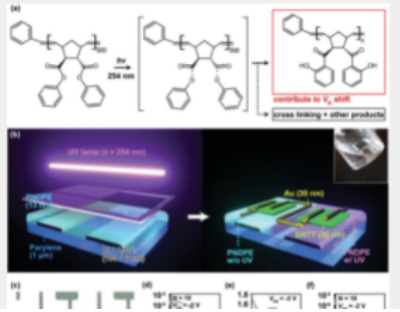
Figure 1



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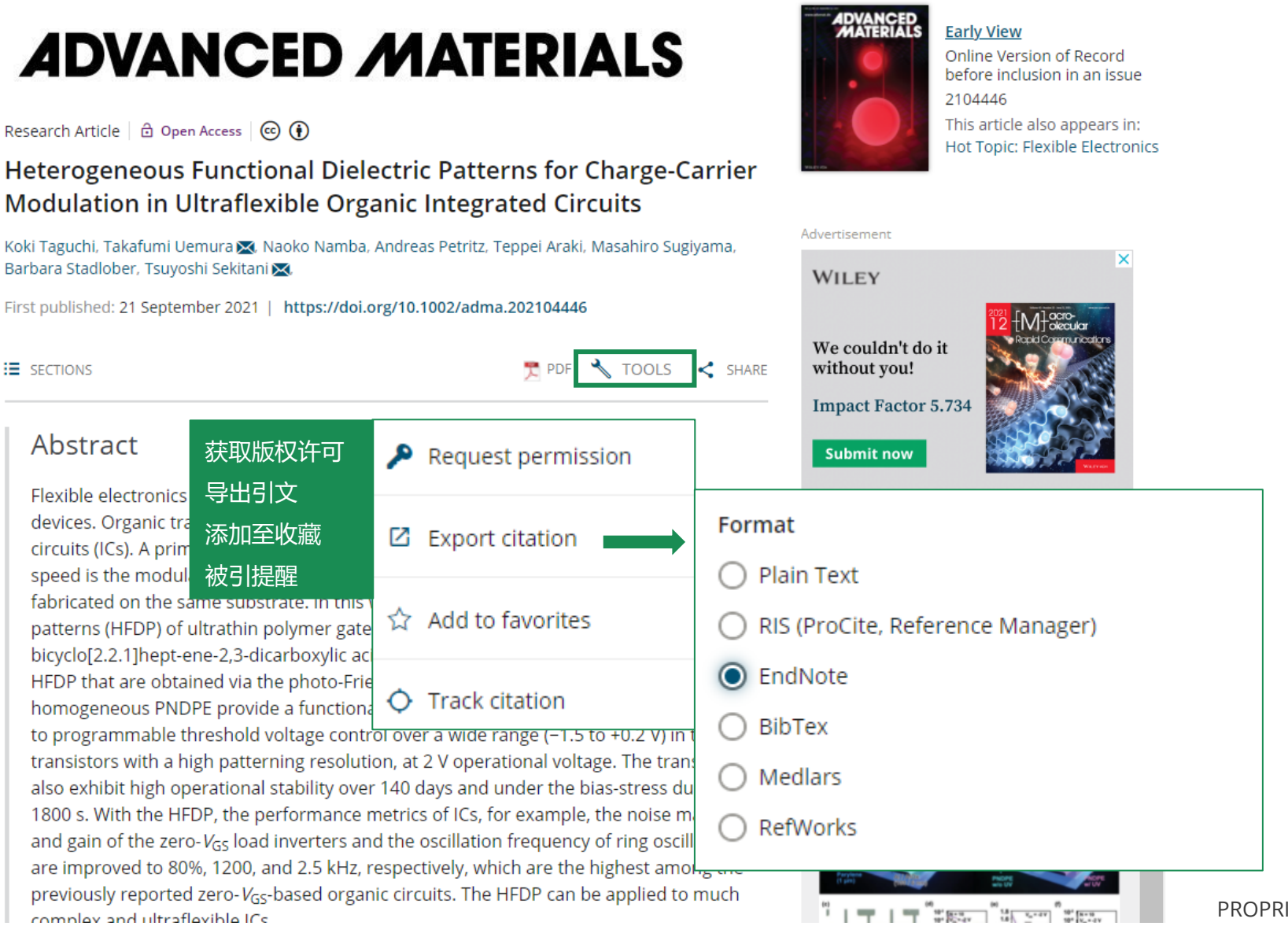
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Flexible electronics have gained considerable attention fo
devices. Organic transistors are potential candidates to d
circuits (ICs). A primary techniq
speed is the modulation of cha
fabricated on the same substra
patterns (HFDP) of ultrathin polymer gate dielectrics of p
bicyclo[2.2.1]hept-ene-2,3-dicarboxylic acid, diphenyleste
HFDP that are obtained via the photo-Fries rearrangemer
homogeneous PNDPE provide a functional area for charg
to programmable threshold voltage control over a wide r
transistors with a high patterning resolution, at 2 V opera
also exhibit high operational stability over 140 days and u
1800 s. With the HFDP, the performance metrics of ICs, fo
and gain of the zero-V_{GS} load inverters and the oscillation
are improved to 80%, 1200, and 2.5 kHz, respectively, whi
previously reported zero-V_{GS}-based organic circuits. The H
complex and ultraflexible ICs

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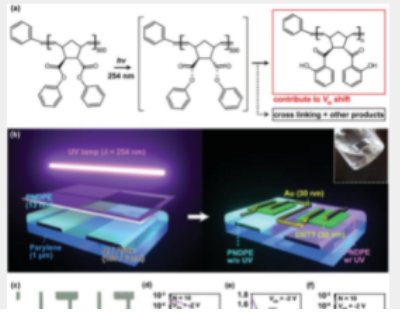

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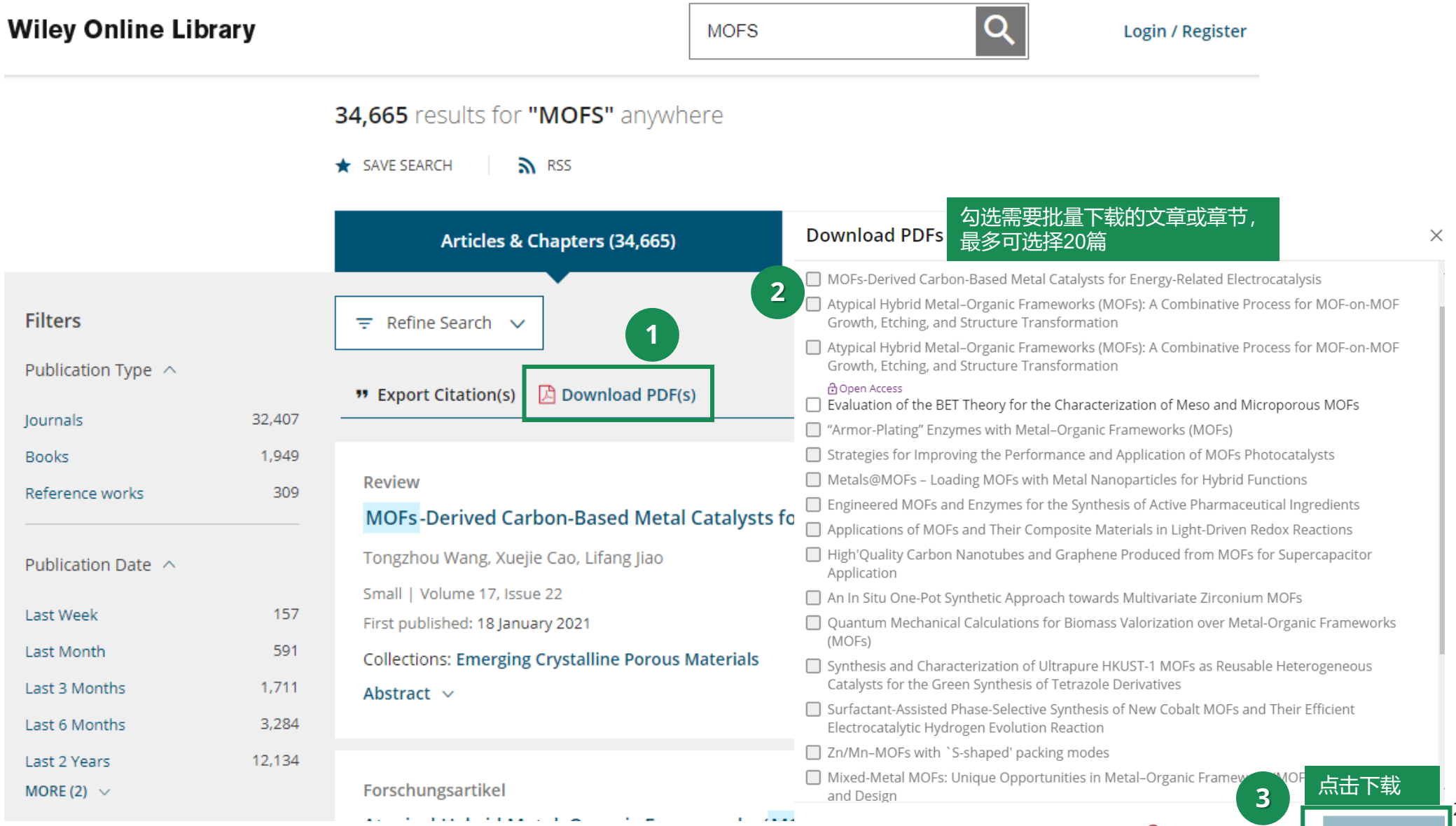

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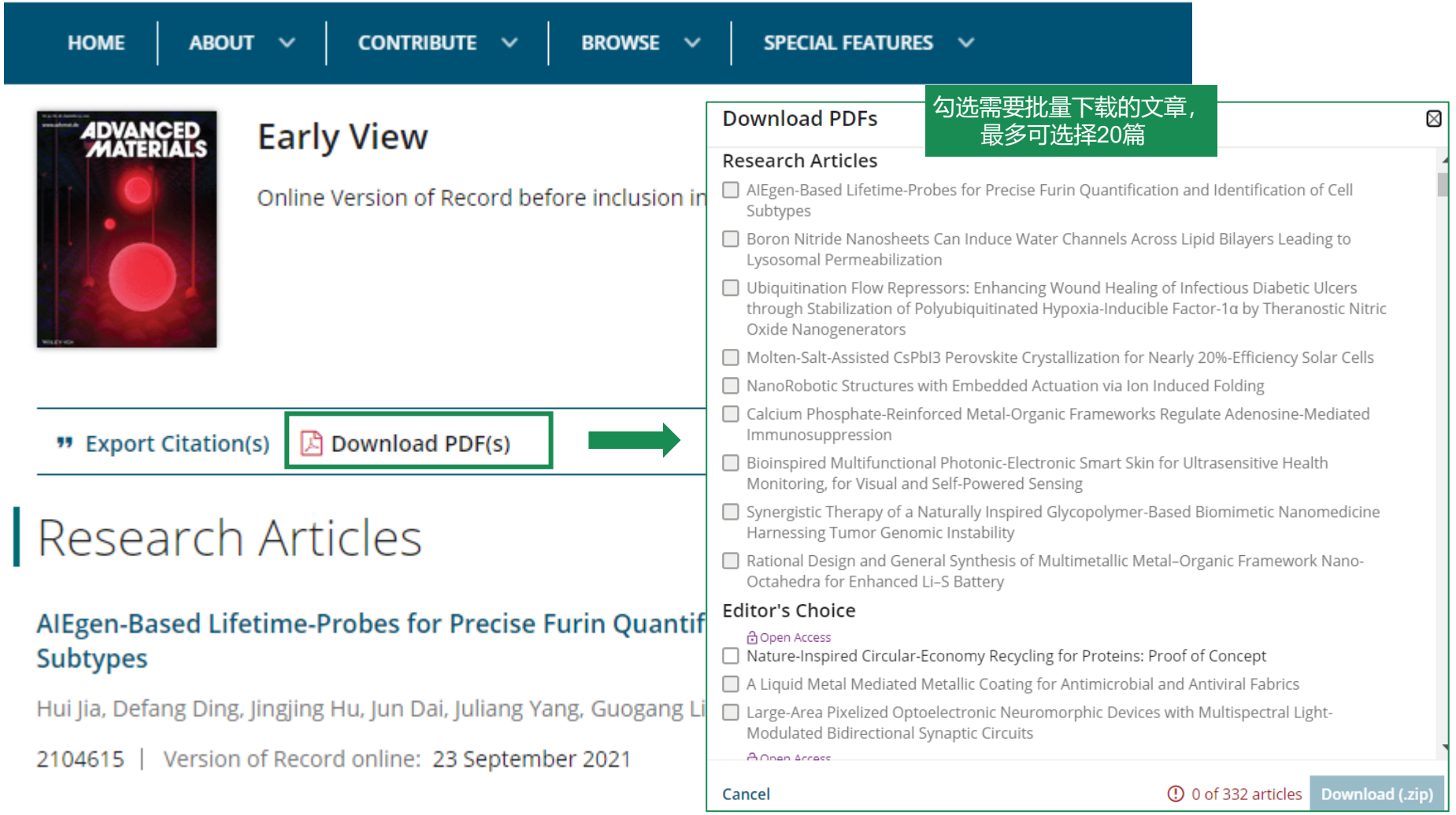

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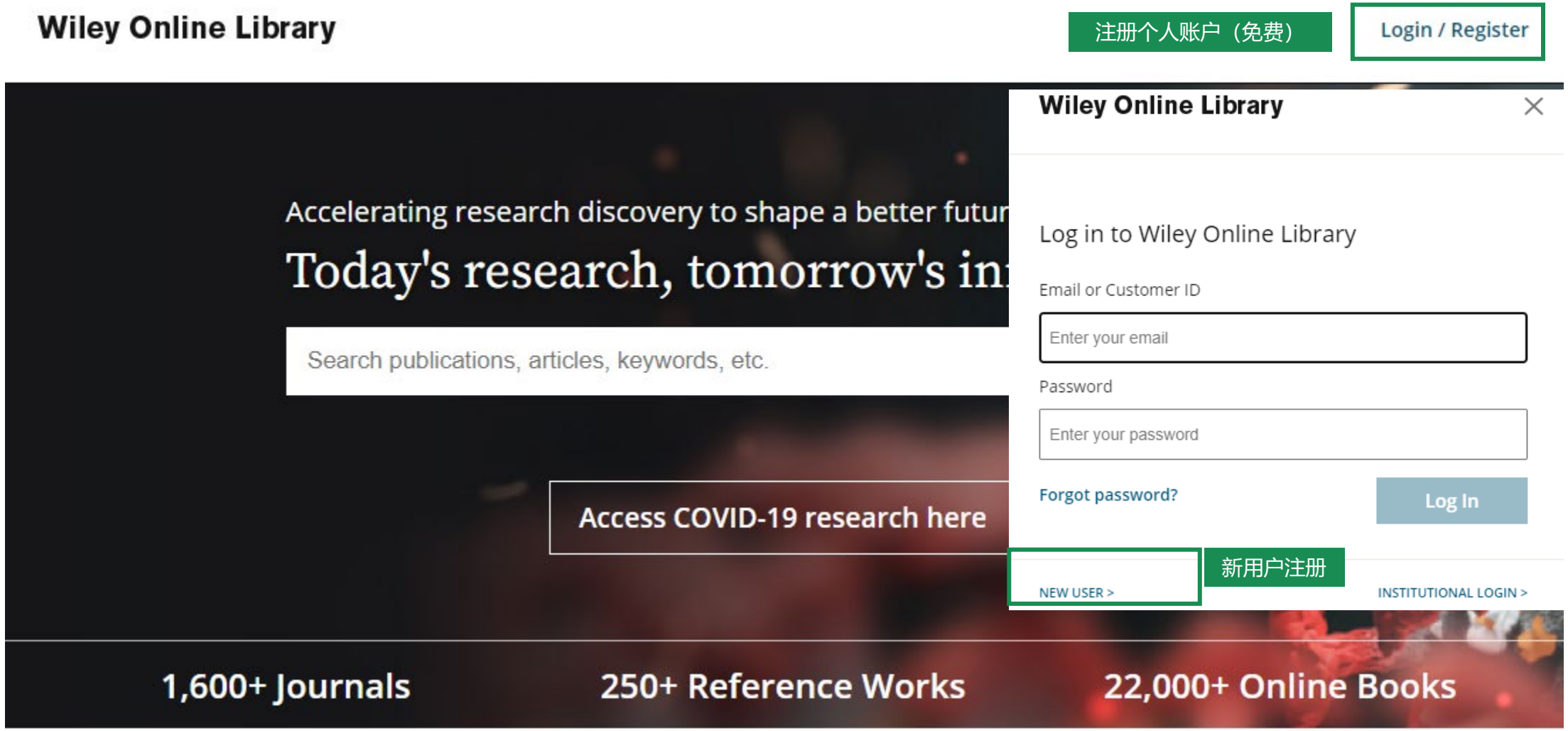

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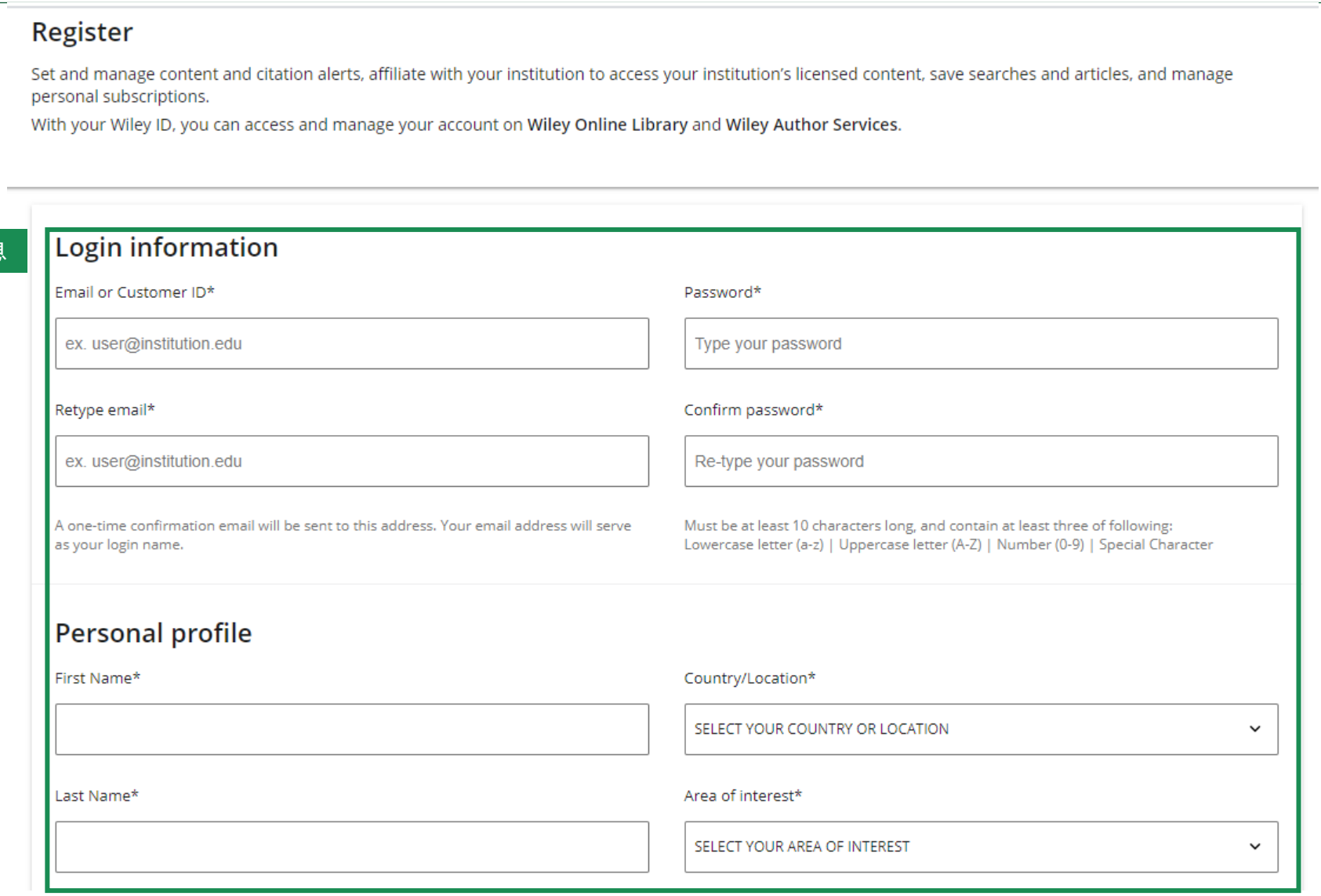

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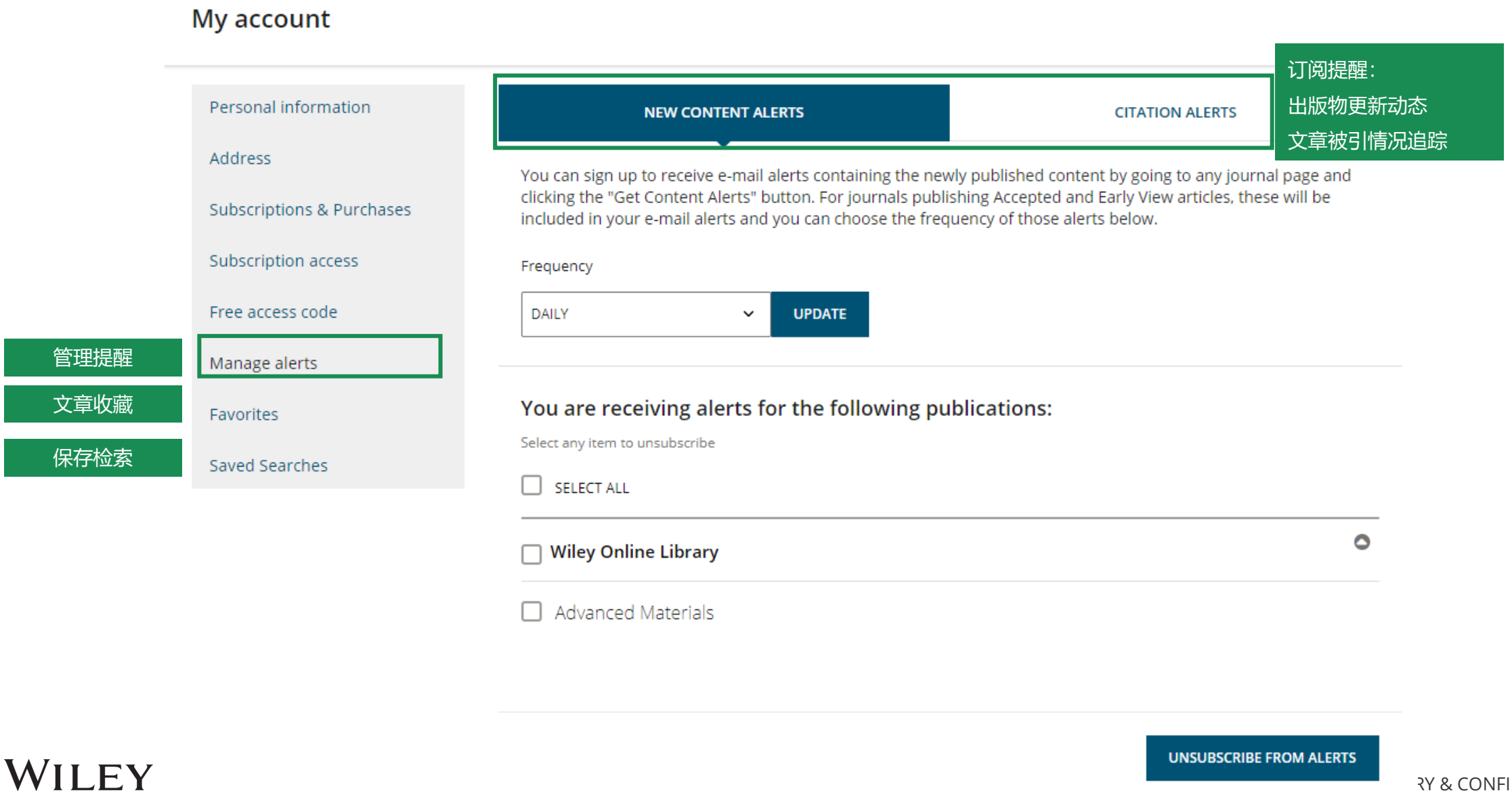

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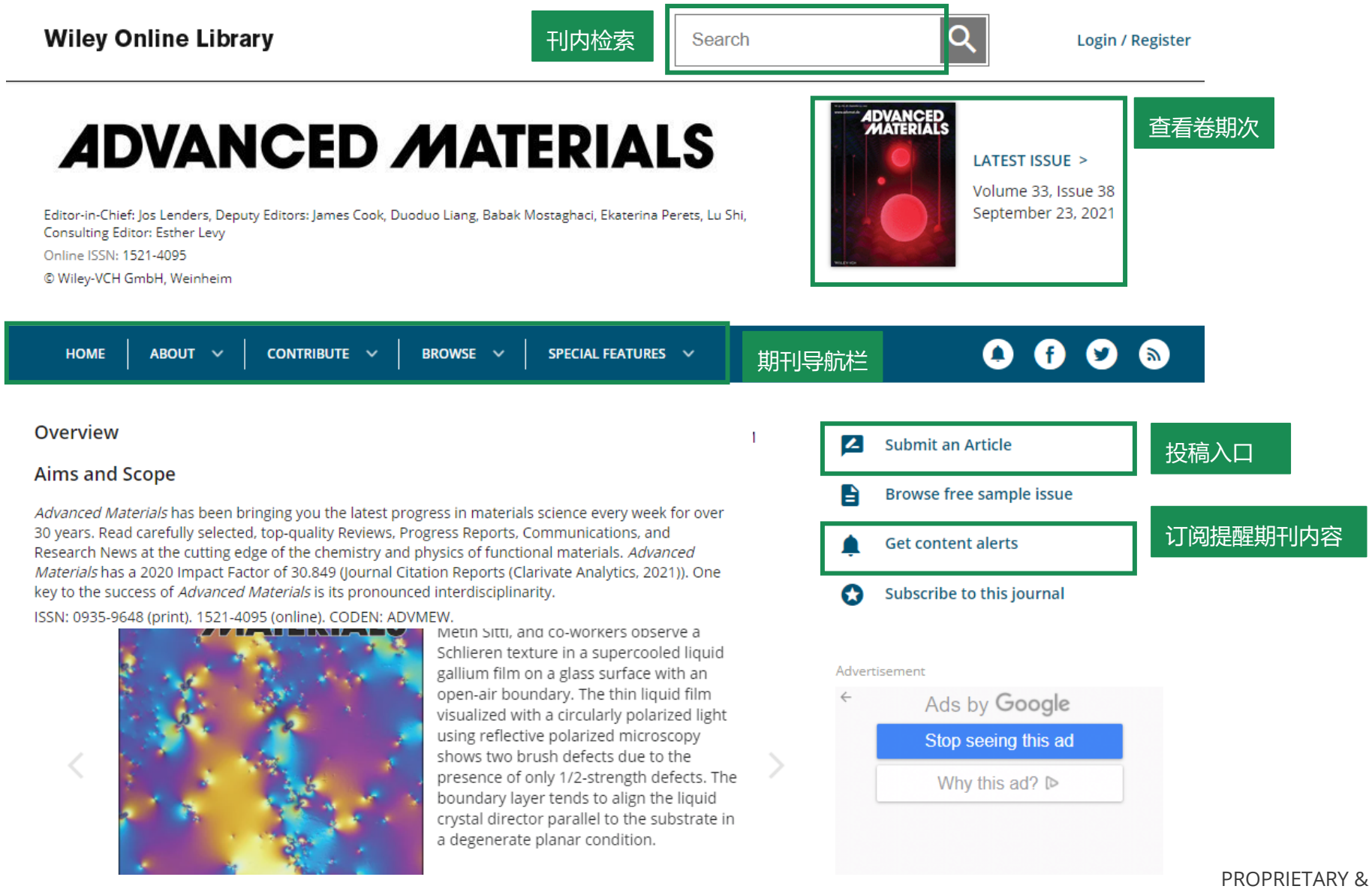
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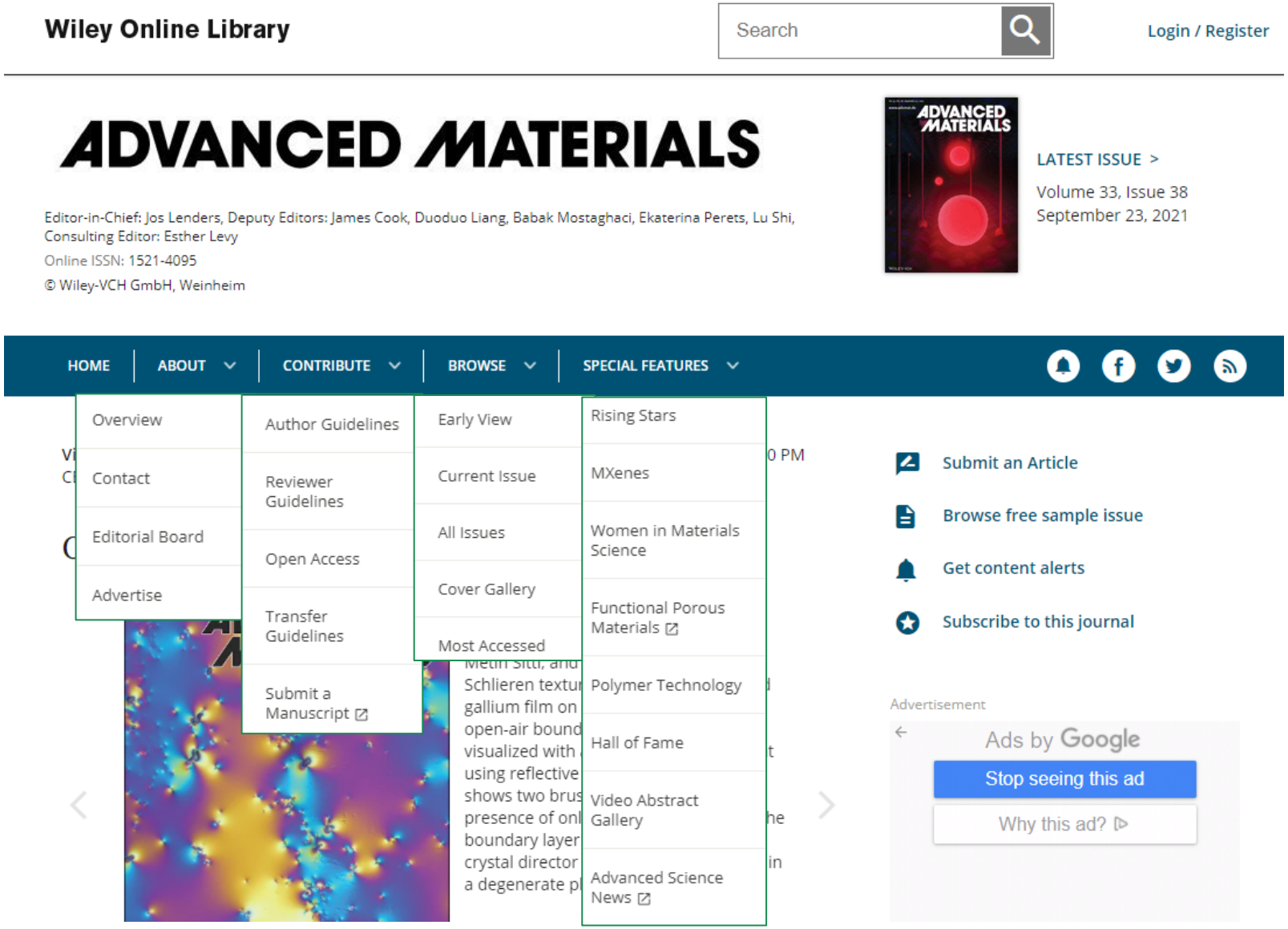
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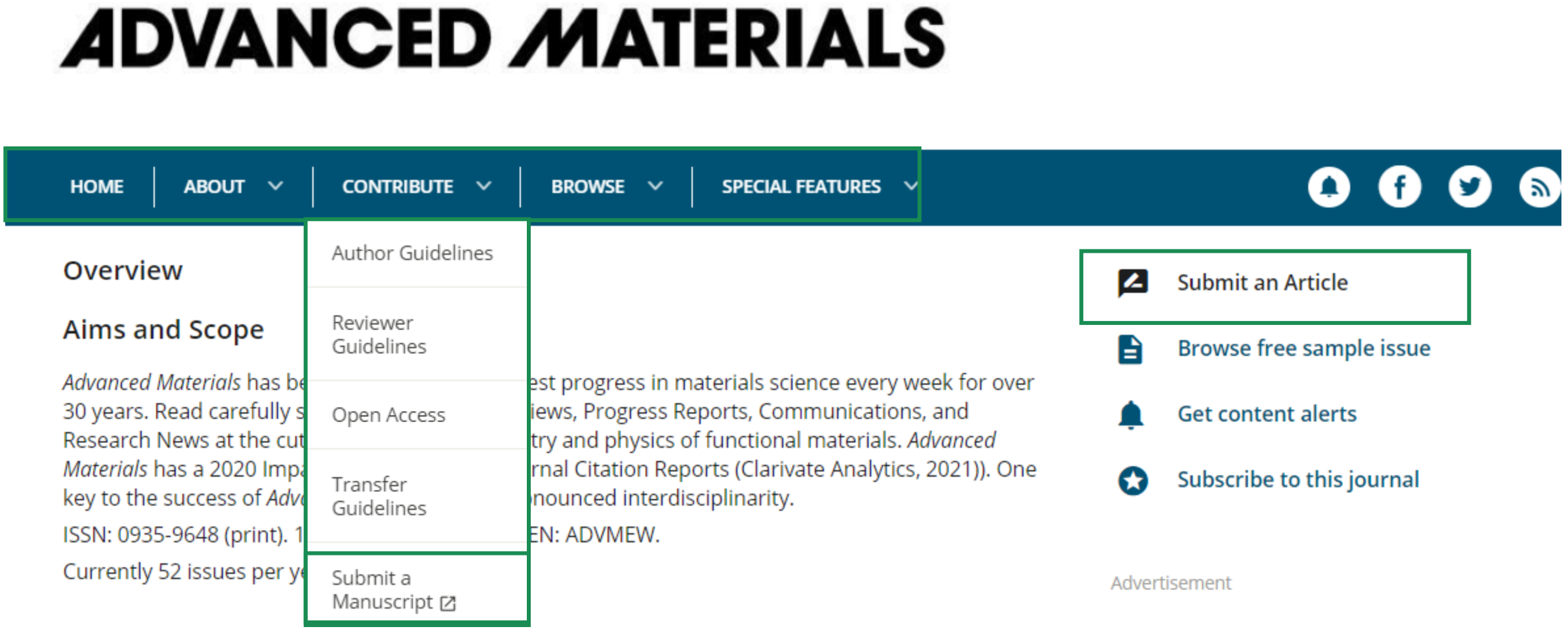

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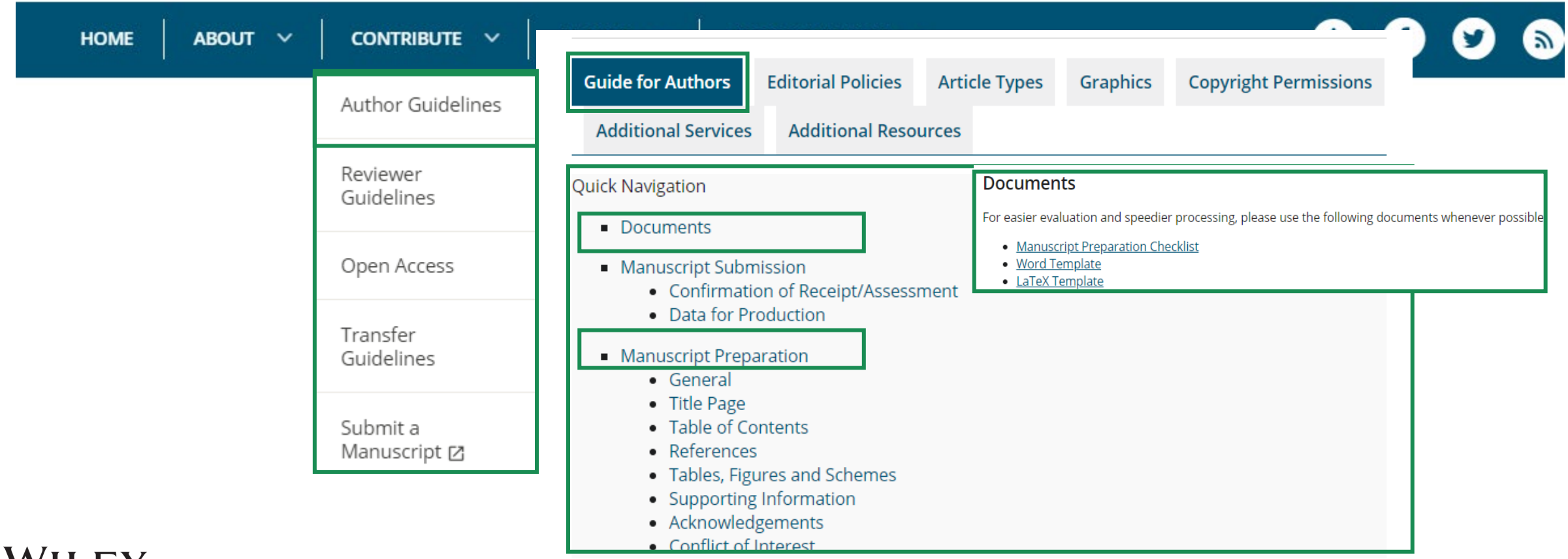

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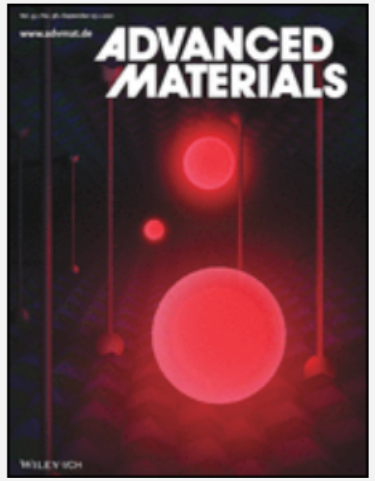

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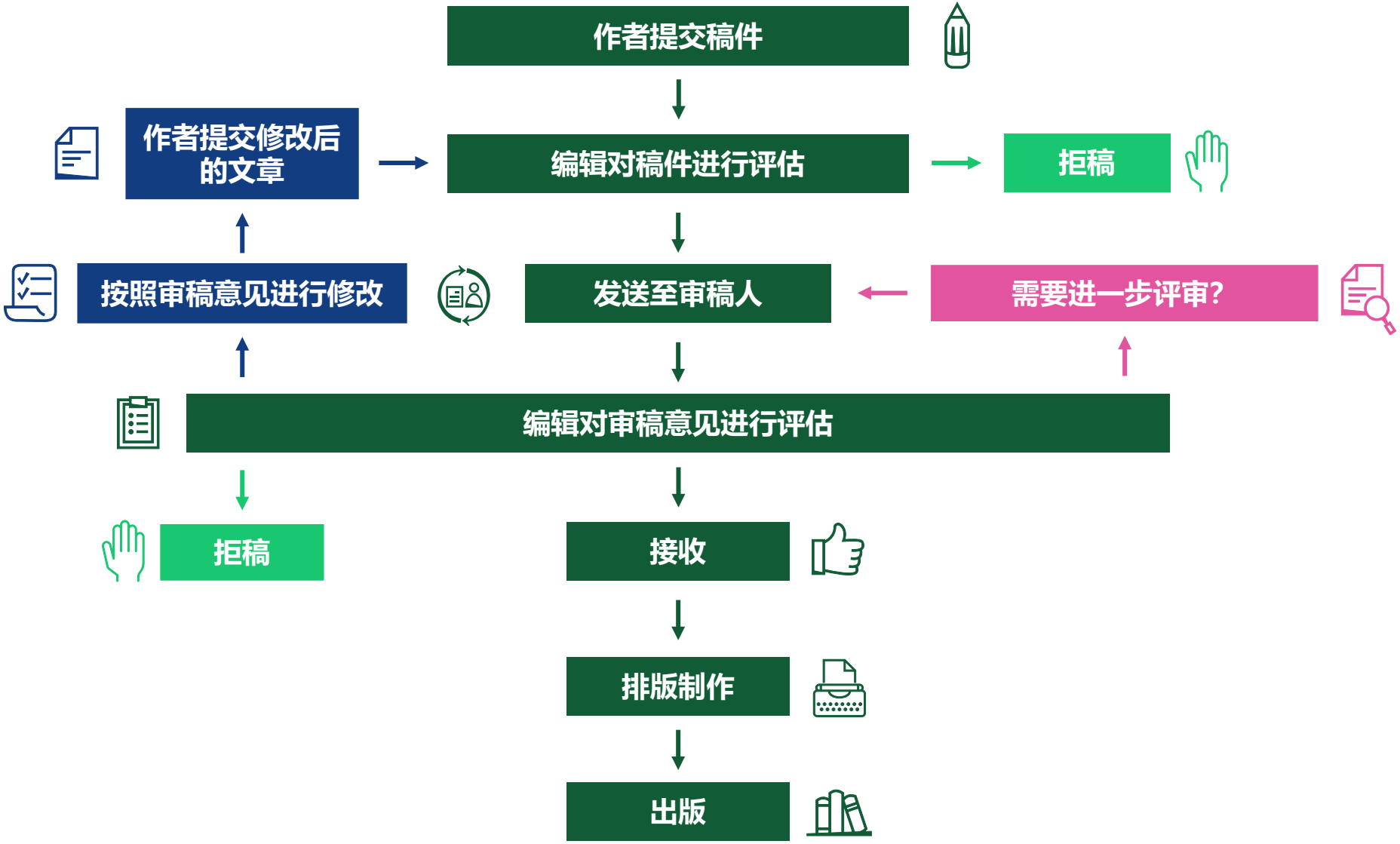
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