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2022.04.22

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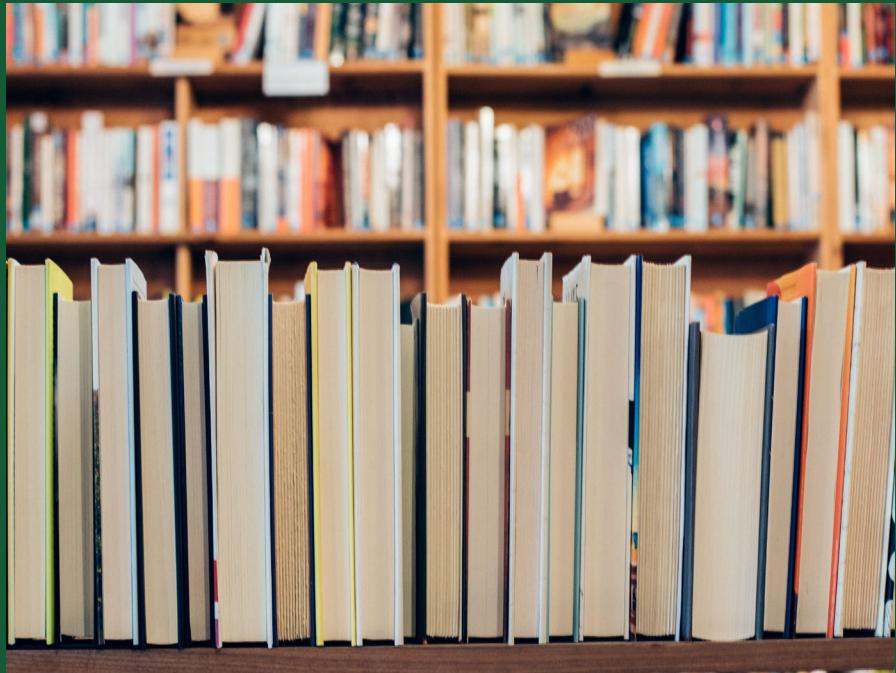
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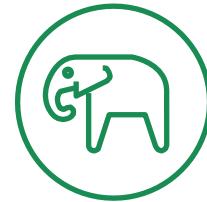
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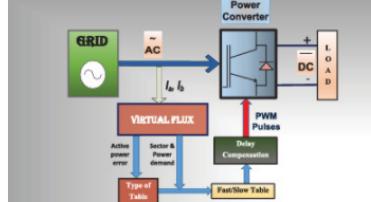
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An advanced virtual flux integrated multifold table-based direct power control with delay compensation for active front-end rectifiers
Abinash Rath, Gopalakrishna Srungavarapu, Monalisa Pattnaik
International Transactions on Electrical Energy Systems | First Published: 7 November 2021



Here, an advanced virtual flux technology is used to avoid the time differential operations. Different lookup tables are used as per the demand, which are designed based upon the normalized values of active and reactive power slopes. This work provides restitution for the unavoidable inaccuracy caused by this control delay in conventional DPC techniques.

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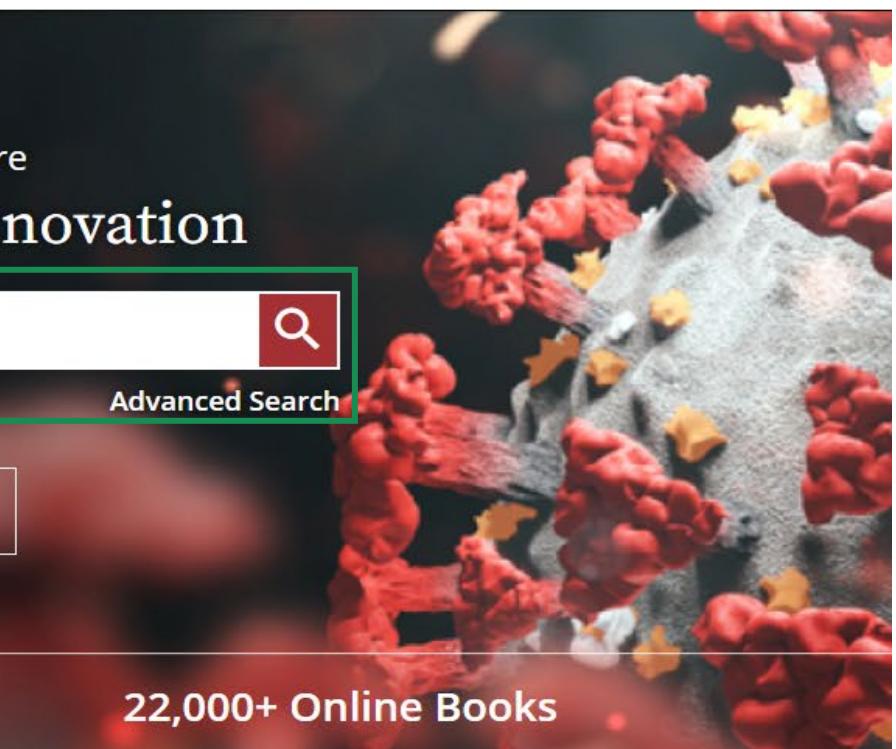
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Use a question mark (?) in a search term to represent a single character (*wom?n* finds women or woman). Use an asterisk (*) to represent zero or more characters. For example, *plant** finds all words with that root (plant, plants, & planting) while *an*mia* finds variants with one or more letters (angmnia & anaemia). Wildcards CANNOT be used at the start of a search term (*tension) or when searching for phrases in quotes ("tobacco smok*").

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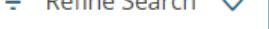
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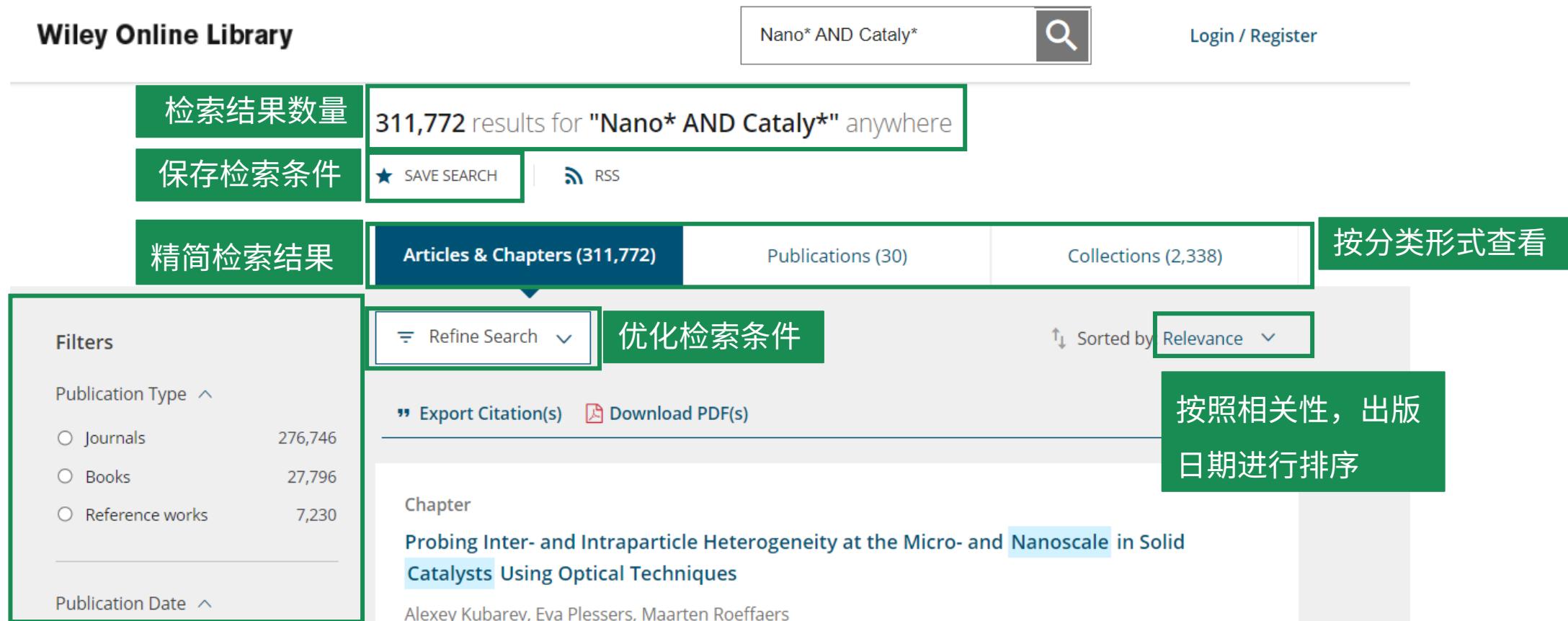
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Probing Inter- and Intraparticle Heterogeneity at the Micro- and **Nanoscale** in Solid Catalysts Using Optical Techniques

Alexey Kubarev, Eva Plessers, Maarten Roeffaers



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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>

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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((\pm)-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.

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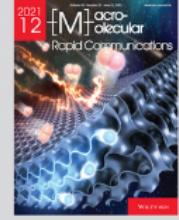
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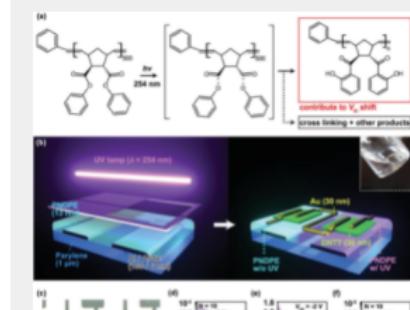
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Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction

Wei Zhu, Zheng Chen, Yuan Pan, Ruoyun Dai, Yue Wu, Zhongbin Zhuang, Dingsheng Wang, Qing Peng, Chen Chen✉, Yadong Li✉

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Hollow nanomaterials have attracted a broad interest in multidisciplinary research due to their unique structure and preeminent properties. Owing to the high specific surface area, well-defined active site, delimited void space, and tunable mass transfer rate, hollow nanostructures can serve as excellent catalysts, supports, and reactors for a variety of catalytic applications, including photocatalysis, electrocatalysis, heterogeneous catalysis, homogeneous catalysis, etc. Based on state-of-the-art synthetic methods and characterization techniques, researchers focus on the purposeful functionalization of hollow nanomaterials for catalytic mechanism studies and intricate catalytic reactions. Herein, an overview of current reports with respect to the catalysis of functionalized hollow nanomaterials is given, and they are classified into five types of versatile

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2. H. C. Zeng, *J. Mater. Chem.* 2006, 16, 649.

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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>

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Flexible electronics have gained considerable attention for app devices. Organic transistors are potential candidates to develop circuits (ICs). A primary technique for maximizing their reliability is the modulation of charge-carrier behavior in the respective transistors. In this work, heterogeneous functional dielectric patterns (HFDP) of ultrathin polymer gate dielectrics of poly(\pm)-bicyclo[2.2.1]hept-ene-2,3-dicarboxylic acid, diphenylester) (PNDPE) that are obtained via the photo-Fries rearrangement by using a homogeneous PNDPE provide a functional area for charge-carrier modulation. The HFDP can be applied to programmable threshold voltage control over a wide range of transistors with a high patterning resolution, at 2 V operation. The HFDP also exhibit high operational stability over 140 days and under 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.

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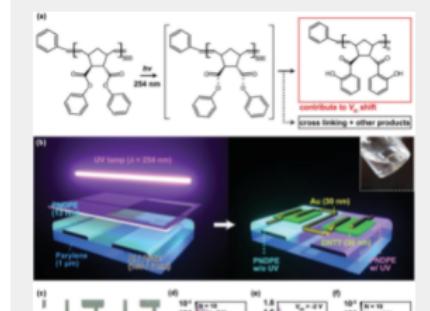
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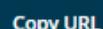
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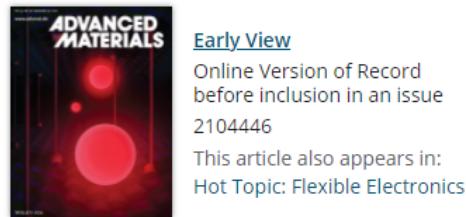
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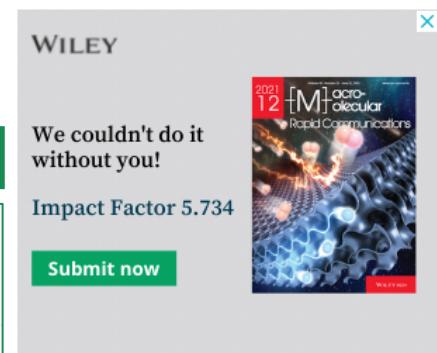


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Flexible electronics have gained considerable interest in recent years. Organic transistors are potential candidates for the next generation of electronic devices. A primary technique for improving the performance of organic transistors is the modulation of charge-carrier density. In this work, we report the fabrication of high-performance organic transistors using a new type of high-density plasma polymer (HFDP) of ultrathin polymer film. The HFDP film is composed of a cyclic polymer, bicyclo[2.2.1]hept-ene-2,3-dicarboxylic acid, and is deposited on a substrate by plasma polymerization. The HFDP film has a thickness of approximately 10 nm and a density of approximately 1.2 g/cm³. The HFDP film is used as a gate insulator in the organic transistors. The organic transistors are fabricated on a flexible substrate using a standard photolithography process. The organic transistors have a drain-to-gate distance of 100 μm and a drain-to-source distance of 10 μm. The organic transistors exhibit a high on/off ratio of approximately 10⁴ and a high mobility of approximately 10 cm²/V·s. The organic 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 more complex and ultraflexible ICs.

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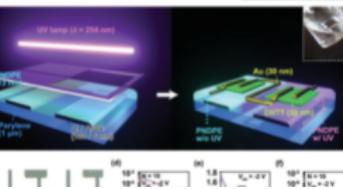
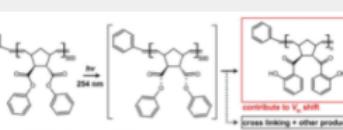
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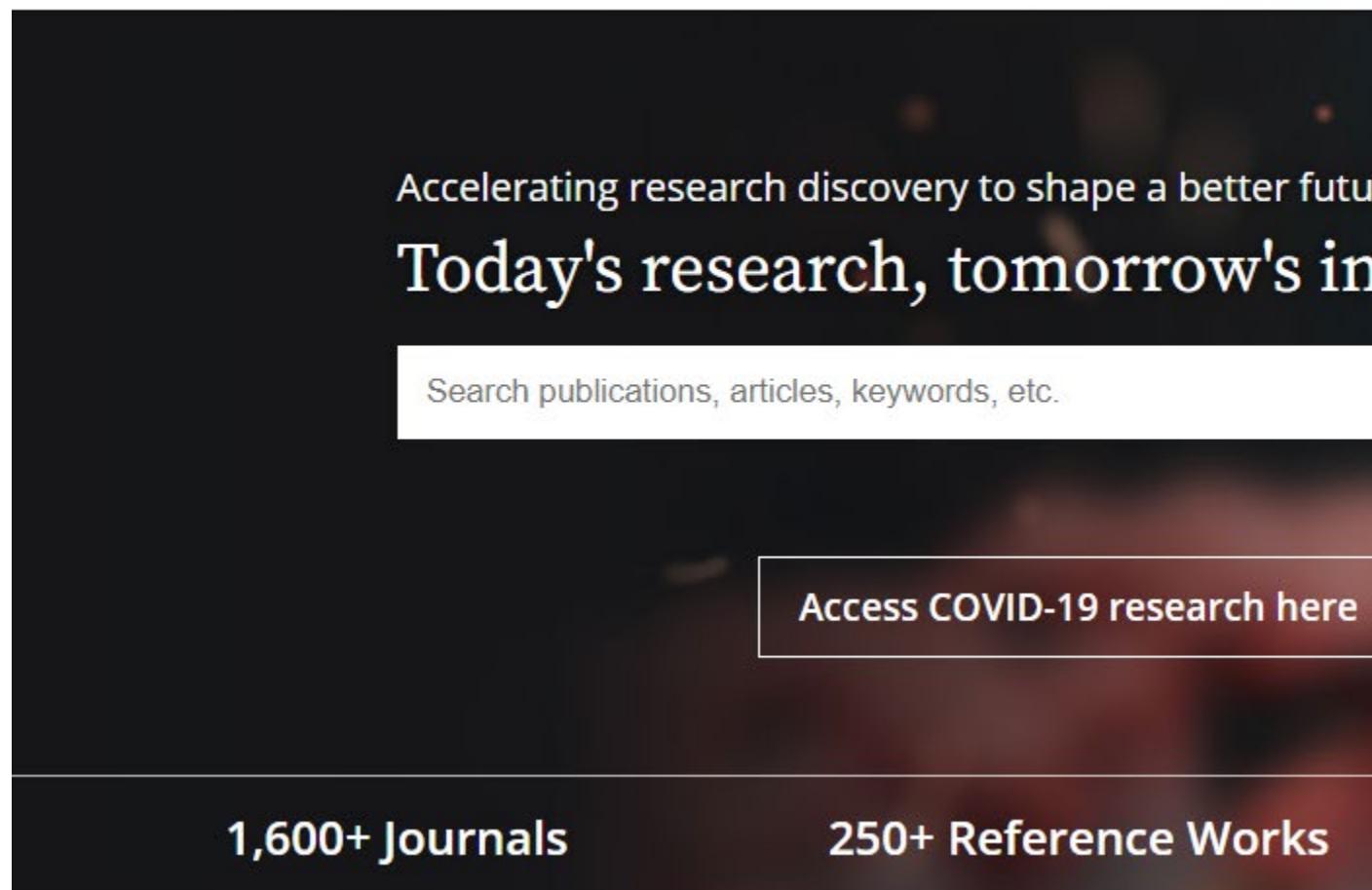
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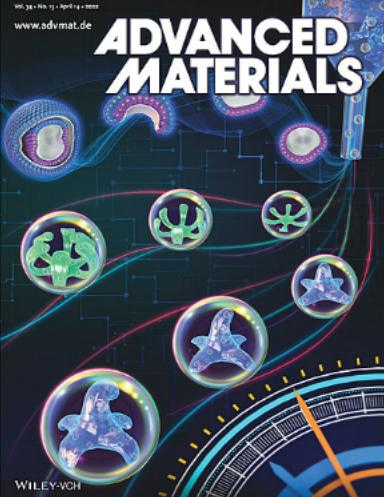
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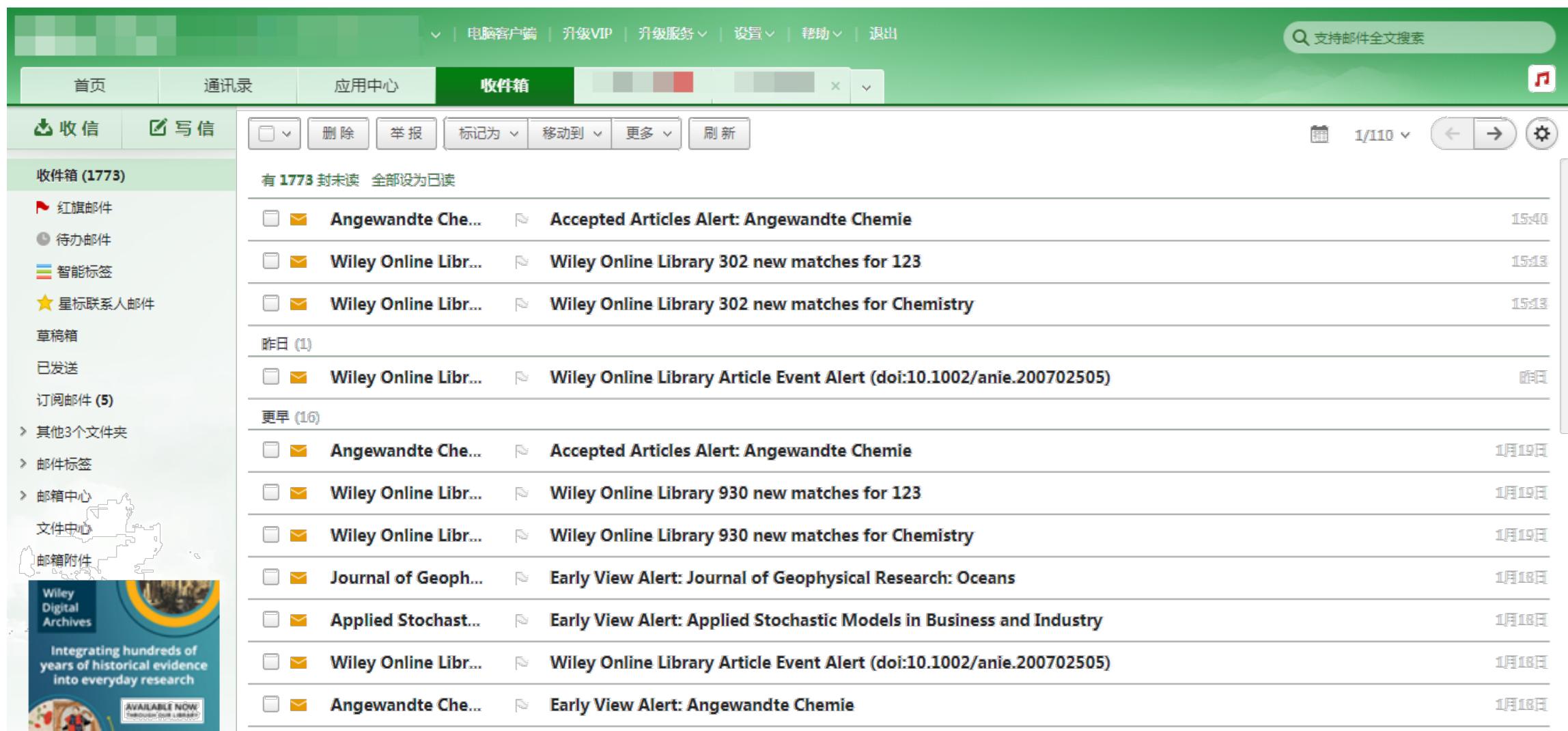
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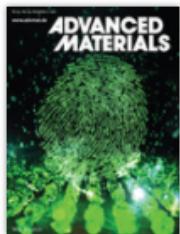
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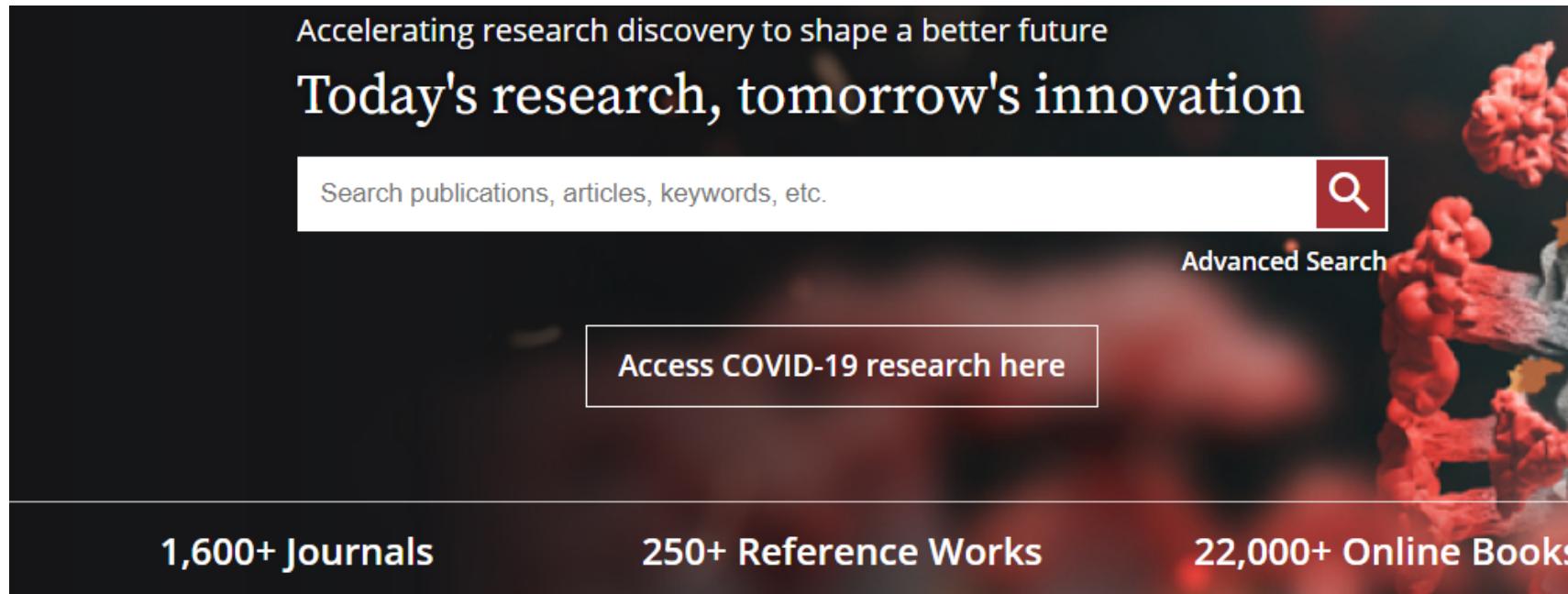
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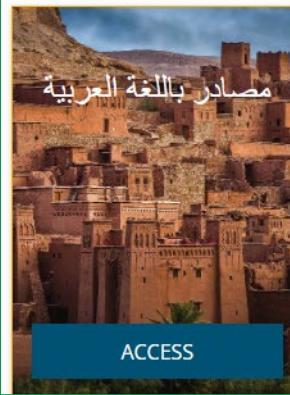
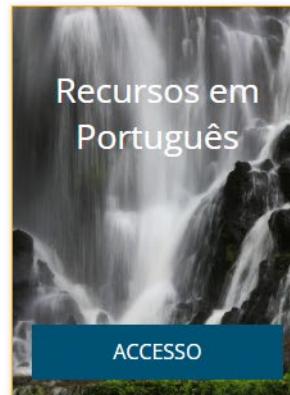
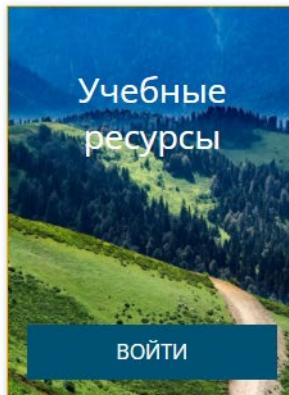
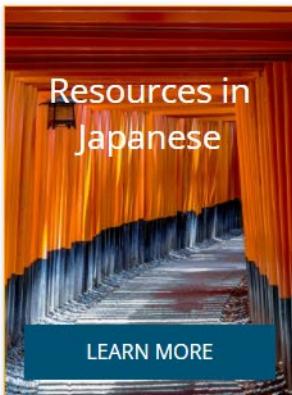
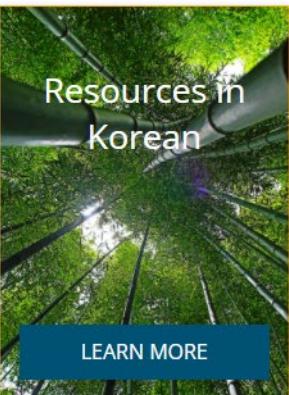
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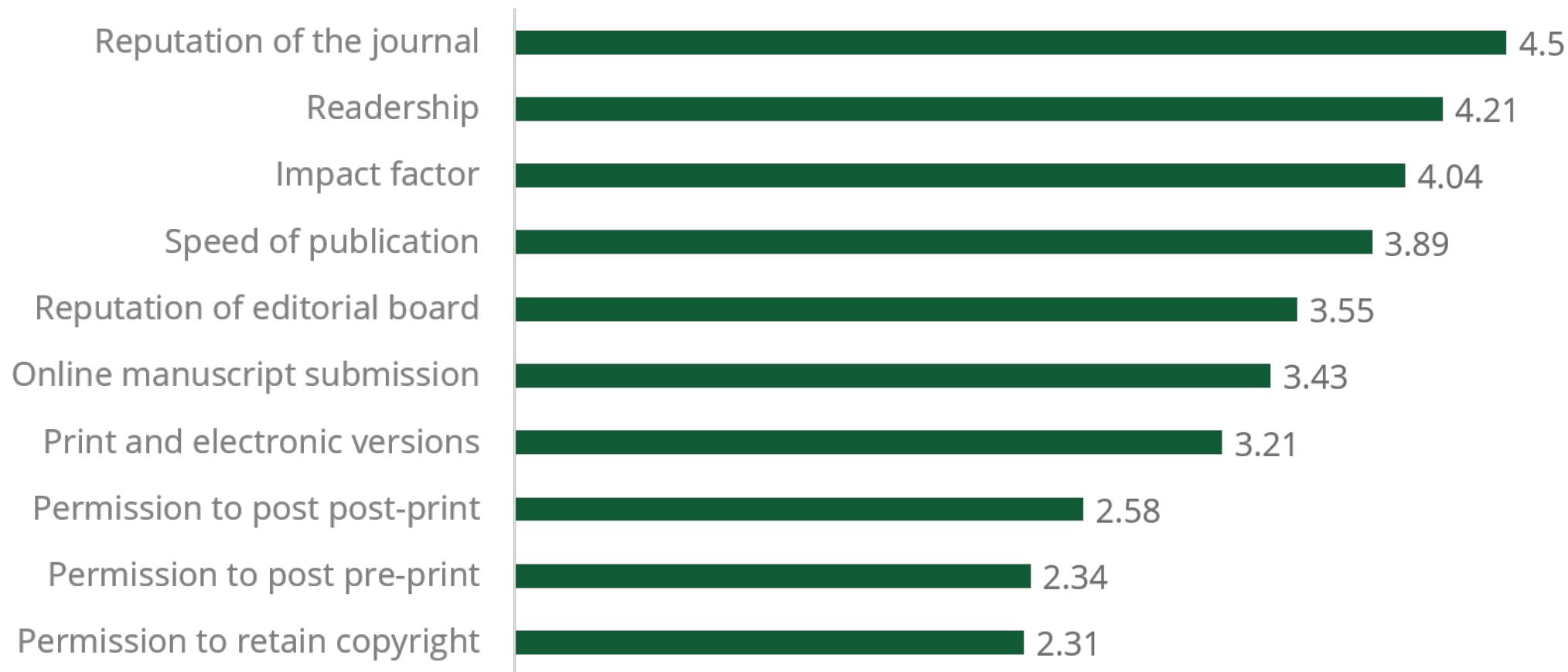
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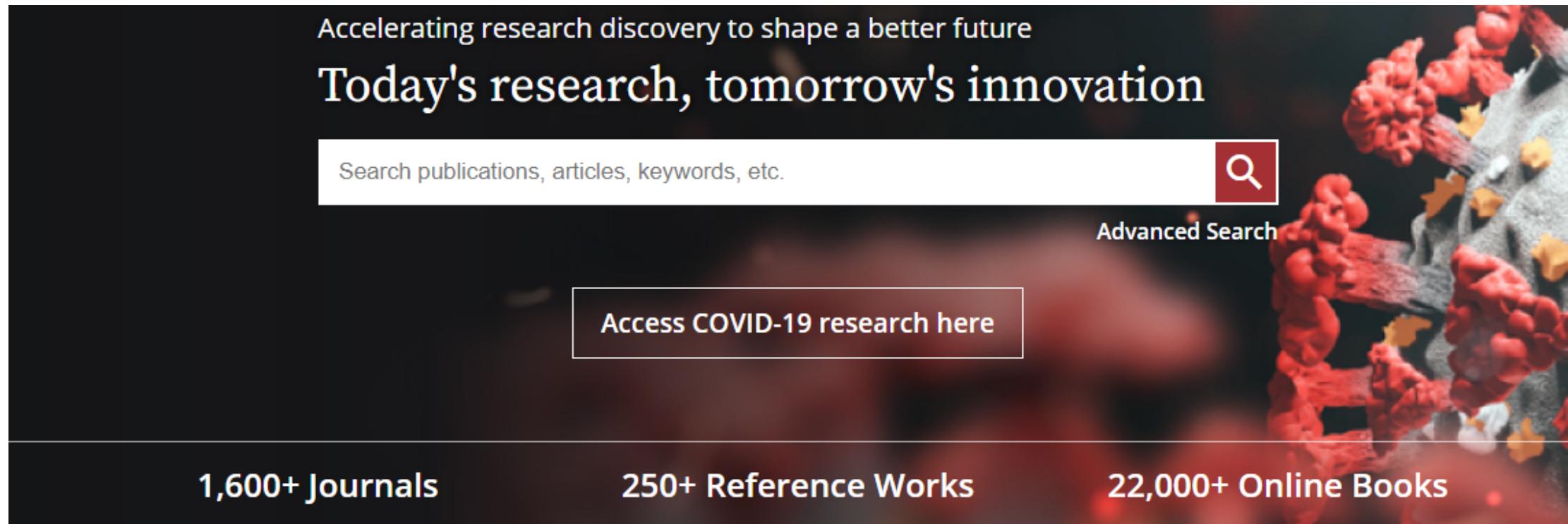
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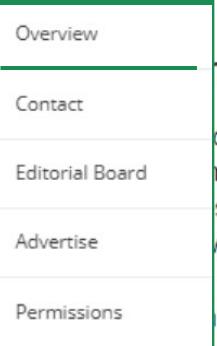
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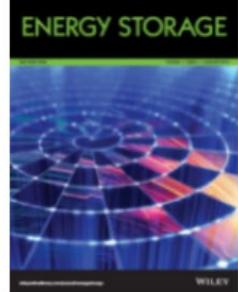
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Soochan Kim, Jungmin Kim, Minhyeong Kim, Misuk Cho, Youngkwan Lee 

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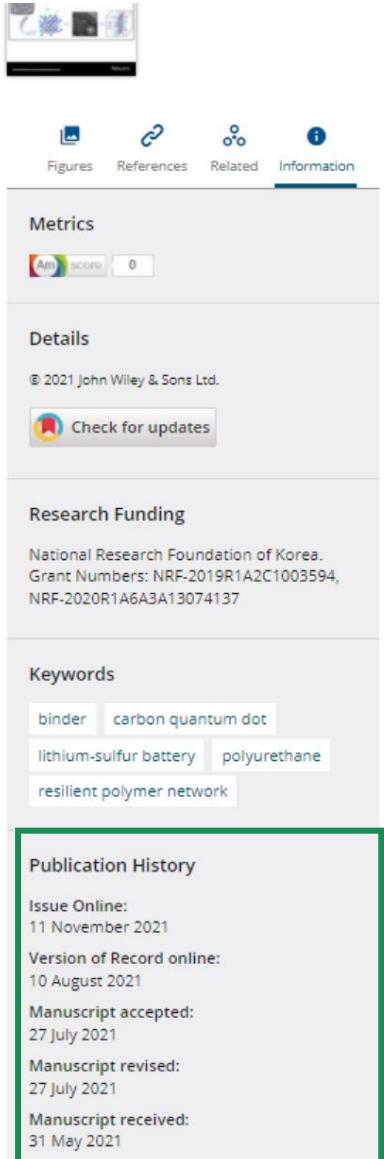
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Lithium-sulfur batteries (LSBs) with outstanding theoretical capacity and environmentally friendly properties are regarded as next-generation energy storage devices. However, the shuttle effect of lithium polysulfide (LPS) limits the practical application of LSBs. Herein, we introduce an aqua-processable carbon quantum dot (CQD)-assisted resilient waterborne polyurethane (WPU) network binder for sulfur cathodes. WPU is a well-dispersed colloidal system with abundant polar groups that is suitable for regulating LPS shuttle effects. CQDs were prepared from WPU by hydrothermal treatment. The CQDs enabled facile electron/ion transport, enhanced the adsorption capability of LPS, and formed a robust network. Moreover, the chemical similarity between WPU and CQDs enabled the formation of a well-dispersed system, thereby affording optimal electrochemical performance. The WPU-CQD binder systems exhibited stable cycling performance at a high rate of 2C, with only 0.028% retention decay per cycle over 1000 cycles.

1 INTRODUCTION

Lithium-sulfur batteries (LSBs) are promising candidates for use in high-energy storage systems. LSBs offer the advantages of high specific energy density ($\sim 2600 \text{ Wh kg}^{-1}$) and low price, owing to the abundance of sulfur in the earth's crust.¹⁻³ However, the commercialization of LSBs is inhibited by several issues, including the electrical insulating properties of sulfur and the discharged products ($\text{Li}_2\text{S}/\text{Li}_2\text{S}_2$), volume expansion ($\sim 80\%$) of sulfur during cycling, and shuttle effects triggered by the dissolution and diffusion of intermediate LPSs into the electrolyte.^{4,5} To alleviate these issues, newly designed sulfur cathodes or components, which can enhance the structural stability of the electrode and regulate the shuttle effects caused by LPS, are essential for high-performance LSBs.

Generally, sulfur cathodes are fabricated by coating a slurry (active materials, conductive additives, and polymer binder) on a current collector. Although the content of the polymer



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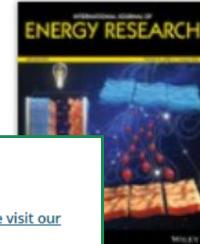
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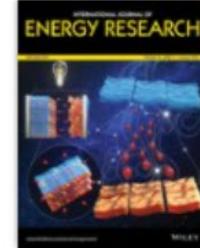
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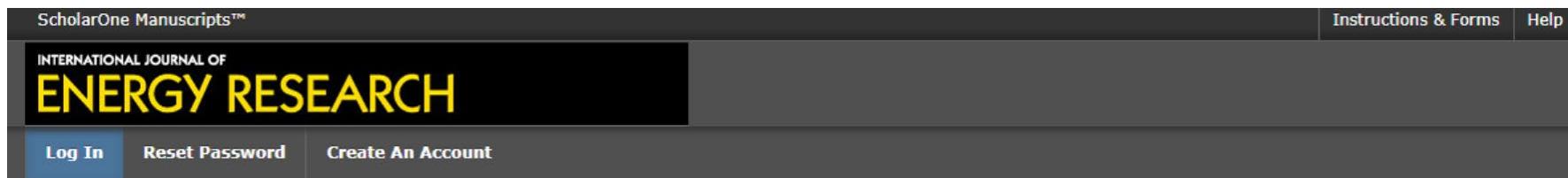
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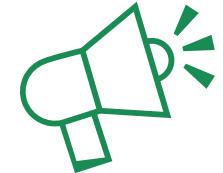
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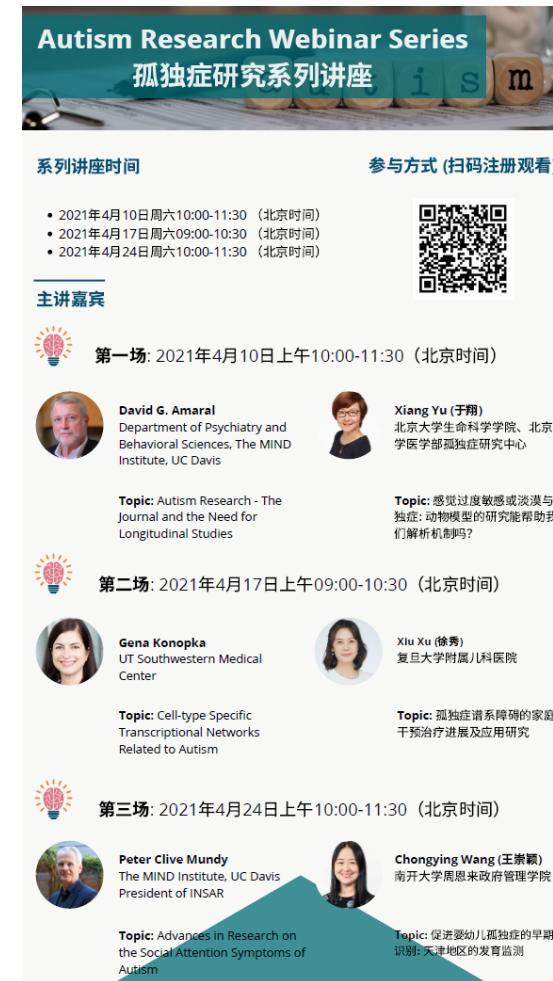
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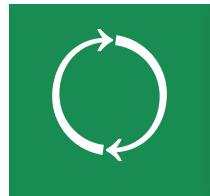
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